Appendix J

Groundwater Analytical Lab Results

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-001
ClientSample ID: AOW 3
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	188	mg/L		5	SM 2320B	11/14/2013 2019	KV
Alkalinity, Bicarbonate as HCO3	220	mg/L		5	SM 2320B	11/14/2013 2019	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	11/14/2013 2019	KV
Chloride	1	mg/L		1	EPA 300.0	11/16/2013 759	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	11/14/2013 2019	KV
Nitrogen, Nitrate+Nitrite (as N)	1.9	mg/L		0.1	EPA 353.2	11/14/2013 1316	RH
Sulfate	4	mg/L		1	EPA 300.0	11/16/2013 759	AMB
Calcium	37	mg/L		1	EPA 200.7	11/14/2013 1453	DG
Magnesium	18	mg/L		1	EPA 200.7	11/14/2013 1453	DG
Potassium	2	mg/L		1	EPA 200.7	11/14/2013 1453	DG
Sodium	13	mg/L		1	EPA 200.7	11/14/2013 1453	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1055	RH
Silica as SiO2	76	mg/L		1	EPA 200.7	11/14/2013 1453	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2019	KV
Electrical Conductivity	370	µmhos/cm		1	SM 2510B	11/14/2013 2019	KV
Total Dissolved Solids (180)	280	mg/L		10	SM 2540	11/13/2013 1504	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.89	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	4.04	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	1.80	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-001
ClientSample ID: AOW 3
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1453	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	11/13/2013 2012	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2012	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1453	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2012	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1453	DG
Copper	0.03	mg/L		0.01	EPA 200.8	11/13/2013 2012	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1453	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2012	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1453	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1151	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2012	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1453	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	11/13/2013 2012	MS
Uranium	0.0087	mg/L		0.0003	EPA 200.8	11/13/2013 2012	MS
Uranium Activity	5.9	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2012	MS
Zinc	1.97	mg/L		0.01	EPA 200.7	11/14/2013 1453	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	11/15/2013 1514	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/02/2013 1416	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/02/2013 1416	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	1493		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	1493			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/25/2013 1103	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/25/2013 1103	MB
Thorium 229 Tracer (30-120)	66	pCi/L			ACW10	11/25/2013 1103	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-001
ClientSample ID: AOW 3
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1230	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1230	SH
Polonium 210	2.0	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/27/2013 854	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/27/2013 854	MB
Thorium 229 Tracer (30-120)	68	%			ACW10	11/27/2013 854	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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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

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Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-002
ClientSample ID: AOW 4
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	148	mg/L		5	SM 2320B	11/14/2013 2057	KV
Alkalinity, Bicarbonate as HCO3	170	mg/L		5	SM 2320B	11/14/2013 2057	KV
Alkalinity, Carbonate as CO3	5	mg/L		1	SM 2320B	11/14/2013 2057	KV
Chloride	7	mg/L		1	EPA 300.0	11/16/2013 813	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	11/14/2013 2057	KV
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	11/14/2013 1317	RH
Sulfate	9	mg/L		1	EPA 300.0	11/16/2013 813	AMB
Calcium	35	mg/L		1	EPA 200.7	11/14/2013 1455	DG
Magnesium	7	mg/L		1	EPA 200.7	11/14/2013 1455	DG
Potassium	4	mg/L		1	EPA 200.7	11/14/2013 1455	DG
Sodium	19	mg/L		1	EPA 200.7	11/14/2013 1455	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1056	RH
Silica as SIO2	60	mg/L		1	EPA 200.7	11/14/2013 1455	DG
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	11/14/2013 2057	KV
Electrical Conductivity	324	µmhos/cm		1	SM 2510B	11/14/2013 2057	KV
Total Dissolved Solids (180)	230	mg/L		10	SM 2540	11/13/2013 1505	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.24	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.41	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	2.56	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
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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
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Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-002
ClientSample ID: AOW 4
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1455	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	11/13/2013 2018	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2018	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1455	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2018	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1455	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2018	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1455	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2018	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1455	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1200	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2018	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1455	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2018	MS
Uranium	0.0052	mg/L		0.0003	EPA 200.8	11/13/2013 2018	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2018	MS
Zinc	0.23	mg/L		0.01	EPA 200.7	11/14/2013 1455	DG
Metals - Suspended							
Uranium	0.0017	mg/L		0.0003	EPA 200.8	11/15/2013 1531	MS
Uranium Activity	1.2	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1020	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1020	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/25/2013 1103	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/25/2013 1103	MB
Thorium 229 Tracer (30-120)	61	%			ACW10	11/25/2013 1103	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-002
ClientSample ID: AOW 4
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1509	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1509	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/27/2013 854	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/27/2013 854	MB
Thorium 229 Tracer (30-120)	64	%			ACW10	11/27/2013 854	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-003
ClientSample ID: AOW 5
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	149	mg/L		5	SM 2320B	11/14/2013 2109	KV
Alkalinity, Bicarbonate as HCO3	174	mg/L		5	SM 2320B	11/14/2013 2109	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	11/14/2013 2109	KV
Chloride	2	mg/L		1	EPA 300.0	11/16/2013 826	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	11/14/2013 2109	KV
Nitrogen, Nitrate+Nitrite (as N)	1.2	mg/L		0.1	EPA 353.2	11/14/2013 1319	RH
Sulfate	7	mg/L		1	EPA 300.0	11/16/2013 826	AMB
Calcium	31	mg/L		1	EPA 200.7	11/14/2013 1457	DG
Magnesium	8	mg/L		1	EPA 200.7	11/14/2013 1457	DG
Potassium	4	mg/L		1	EPA 200.7	11/14/2013 1457	DG
Sodium	19	mg/L		1	EPA 200.7	11/14/2013 1457	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1057	RH
Silica as SiO2	64	mg/L		1	EPA 200.7	11/14/2013 1457	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2109	KV
Electrical Conductivity	313	µmhos/cm		1	SM 2510B	11/14/2013 2109	KV
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	11/13/2013 1506	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.16	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.30	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	2.21	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-003
ClientSample ID: AOW 5
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1457	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	11/13/2013 2023	MS
Barium	0.1	mg/L		0.1	EPA 200.8	11/13/2013 2023	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1457	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2023	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1457	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2023	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1457	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2023	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1457	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1208	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2023	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1457	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2023	MS
Uranium	0.0077	mg/L		0.0003	EPA 200.8	11/13/2013 2023	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2023	MS
Zinc	0.11	mg/L		0.01	EPA 200.7	11/14/2013 1457	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	11/15/2013 1535	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1020	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1020	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/25/2013 1103	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/25/2013 1103	MB
Thorium 229 Tracer (30-120)	57	%			ACW10	11/25/2013 1103	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-003
ClientSample ID: AOW 5
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1509	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1509	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/27/2013 854	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/27/2013 854	MB
Thorium 229 Tracer (30-120)	68	%			ACW10	11/27/2013 854	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-004
ClientSample ID: AOW 6
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	163	mg/L		5	SM 2320B	11/14/2013 2120	KV
Alkalinity, Bicarbonate as HCO3	193	mg/L		5	SM 2320B	11/14/2013 2120	KV
Alkalinity, Carbonate as CO3	3	mg/L		1	SM 2320B	11/14/2013 2120	KV
Chloride	8	mg/L		1	EPA 300.0	11/16/2013 840	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	11/14/2013 2120	KV
Nitrogen, Nitrate+Nitrite (as N)	2.6	mg/L		0.1	EPA 353.2	11/14/2013 1320	RH
Sulfate	12	mg/L		1	EPA 300.0	11/16/2013 840	AMB
Calcium	42	mg/L		1	EPA 200.7	11/14/2013 1459	DG
Magnesium	8	mg/L		1	EPA 200.7	11/14/2013 1459	DG
Potassium	5	mg/L		1	EPA 200.7	11/14/2013 1459	DG
Sodium	20	mg/L		1	EPA 200.7	11/14/2013 1459	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1058	RH
Silica as SiO2	57	mg/L		1	EPA 200.7	11/14/2013 1459	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2120	KV
Electrical Conductivity	377	µmhos/cm		1	SM 2510B	11/14/2013 2120	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	11/13/2013 1507	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.73	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.93	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	2.62	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-004
ClientSample ID: AOW 6
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1459	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	11/13/2013 2028	MS
Barium	0.1	mg/L		0.1	EPA 200.8	11/13/2013 2028	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1459	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2028	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1459	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2028	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1459	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2028	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1459	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1210	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2028	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1459	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2028	MS
Uranium	0.0069	mg/L		0.0003	EPA 200.8	11/13/2013 2028	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2028	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1459	DG
Metals - Suspended							
Uranium	0.0009	mg/L		0.0003	EPA 200.8	11/15/2013 1539	MS
Uranium Activity	0.6	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1020	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1020	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/25/2013 1103	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/25/2013 1103	MB
Thorium 229 Tracer (30-120)	63	%			ACW10	11/25/2013 1103	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-004
ClientSample ID: AOW 6
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1509	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1509	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/27/2013 854	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/27/2013 854	MB
Thorium 229 Tracer (30-120)	69	%			ACW10	11/27/2013 854	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-005
ClientSample ID: AOW 8
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	133	mg/L		5	SM 2320B	11/14/2013 2132	KV
Alkalinity, Bicarbonate as HCO3	155	mg/L		5	SM 2320B	11/14/2013 2132	KV
Alkalinity, Carbonate as CO3	3	mg/L		1	SM 2320B	11/14/2013 2132	KV
Chloride	8	mg/L		1	EPA 300.0	11/16/2013 854	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	11/14/2013 2132	KV
Nitrogen, Nitrate+Nitrite (as N)	1.2	mg/L		0.1	EPA 353.2	11/14/2013 1321	RH
Sulfate	3	mg/L		1	EPA 300.0	11/16/2013 854	AMB
Calcium	33	mg/L		1	EPA 200.7	11/14/2013 1504	DG
Magnesium	12	mg/L		1	EPA 200.7	11/14/2013 1504	DG
Potassium	1	mg/L		1	EPA 200.7	11/14/2013 1504	DG
Sodium	6	mg/L		1	EPA 200.7	11/14/2013 1504	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1059	RH
Silica as SiO2	72	mg/L		1	EPA 200.7	11/14/2013 1504	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2132	KV
Electrical Conductivity	287	µmhos/cm		1	SM 2510B	11/14/2013 2132	KV
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	11/13/2013 1508	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	2.91	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.03	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	1.95	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	220	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-005
ClientSample ID: AOW 8
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1504	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2034	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2034	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1504	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2034	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1504	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2034	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1504	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2034	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1504	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1212	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2034	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1504	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	11/13/2013 2034	MS
Uranium	0.0039	mg/L		0.0003	EPA 200.8	11/13/2013 2034	MS
Uranium Activity	2.6	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2034	MS
Zinc	0.19	mg/L		0.01	EPA 200.7	11/14/2013 1504	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	11/15/2013 1551	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	12/03/2013 1020	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	12/03/2013 1020	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/25/2013 1103	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/25/2013 1103	MB
Thorium 229 Tracer (30-120)	63	%			ACW10	11/25/2013 1103	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-005
ClientSample ID: AOW 8
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1509	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1509	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/27/2013 854	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/27/2013 854	MB
Thorium 229 Tracer (30-120)	74	%			ACW10	11/27/2013 854	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-006
ClientSample ID: AOW 9
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	153	mg/L		5	SM 2320B	11/14/2013 2144	KV
Alkalinity, Bicarbonate as HCO3	178	mg/L		5	SM 2320B	11/14/2013 2144	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	11/14/2013 2144	KV
Chloride	4	mg/L		1	EPA 300.0	11/16/2013 908	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	11/14/2013 2144	KV
Nitrogen, Nitrate+Nitrite (as N)	1.2	mg/L		0.1	EPA 353.2	11/14/2013 1329	RH
Sulfate	8	mg/L		1	EPA 300.0	11/16/2013 908	AMB
Calcium	34	mg/L		1	EPA 200.7	11/14/2013 1517	DG
Magnesium	8	mg/L		1	EPA 200.7	11/14/2013 1517	DG
Potassium	4	mg/L		1	EPA 200.7	11/14/2013 1517	DG
Sodium	19	mg/L		1	EPA 200.7	11/14/2013 1517	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1100	RH
Silica as SiO2	64	mg/L		1	EPA 200.7	11/14/2013 1517	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2144	KV
Electrical Conductivity	325	µmhos/cm		1	SM 2510B	11/14/2013 2144	KV
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	11/13/2013 1509	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.29	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.44	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	2.25	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.92	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-006
ClientSample ID: AOW 9
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1517	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	11/13/2013 2050	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2050	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1517	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2050	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1517	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2050	MS
Iron	0.06	mg/L		0.05	EPA 200.7	11/14/2013 1517	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2050	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1517	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1214	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2050	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1517	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2050	MS
Uranium	0.0083	mg/L		0.0003	EPA 200.8	11/13/2013 2050	MS
Uranium Activity	5.6	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2050	MS
Zinc	0.22	mg/L		0.01	EPA 200.7	11/14/2013 1517	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	11/15/2013 1555	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1020	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1020	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/26/2013 808	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/26/2013 808	MB
Thorium 229 Tracer (30-120)	71	%			ACW10	11/26/2013 808	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-006
ClientSample ID: AOW 9
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/04/2013 1457	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 1457	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/04/2013 718	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/04/2013 718	MB
Thorium 229 Tracer (30-120)	71	%			ACW10	12/04/2013 718	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

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-007
ClientSample ID: AOW 10
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	150	mg/L		5	SM 2320B	11/21/2013 1558	KV
Alkalinity, Bicarbonate as HCO3	182	mg/L		5	SM 2320B	11/21/2013 1558	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	11/21/2013 1558	KV
Chloride	4	mg/L		1	EPA 300.0	11/21/2013 1800	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	11/14/2013 2158	KV
Nitrogen, Nitrate+Nitrite (as N)	2.1	mg/L		0.1	EPA 353.2	11/14/2013 1330	RH
Sulfate	8	mg/L		1	EPA 300.0	11/21/2013 1800	AMB
Calcium	32	mg/L		1	EPA 200.7	11/14/2013 1520	DG
Magnesium	9	mg/L		1	EPA 200.7	11/21/2013 1859	DG
Potassium	3	mg/L		1	EPA 200.7	11/14/2013 1520	DG
Sodium	21	mg/L		1	EPA 200.7	11/21/2013 1859	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1101	RH
Silica as SiO2	63	mg/L		1	EPA 200.7	11/14/2013 1520	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2158	KV
Electrical Conductivity	328	µmhos/cm		1	SM 2510B	11/14/2013 2158	KV
Total Dissolved Solids (180)	230	mg/L		10	SM 2540	11/13/2013 1510	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.33	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.46	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	1.92	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-007
ClientSample ID: AOW 10
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1520	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2055	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2055	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1520	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2055	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1520	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2055	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1520	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2055	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1520	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1216	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2055	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1520	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2055	MS
Uranium	0.0069	mg/L		0.0003	EPA 200.8	11/13/2013 2055	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2055	MS
Zinc	0.21	mg/L		0.01	EPA 200.7	11/14/2013 1520	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	11/15/2013 1559	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1020	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1020	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/26/2013 808	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/26/2013 808	MB
Thorium 229 Tracer (30-120)	74	%			ACW10	11/26/2013 808	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-007
ClientSample ID: AOW 10
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/04/2013 1703	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 1703	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/04/2013 718	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/04/2013 718	MB
Thorium 229 Tracer (30-120)	72	%			ACW10	12/04/2013 718	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-008
ClientSample ID: AOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	166	mg/L		5	SM 2320B	11/14/2013 2210	KV
Alkalinity, Bicarbonate as HCO3	195	mg/L		5	SM 2320B	11/14/2013 2210	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	11/14/2013 2210	KV
Chloride	10	mg/L		1	EPA 300.0	11/18/2013 1454	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	11/14/2013 2210	KV
Nitrogen, Nitrate+Nitrite (as N)	3.6	mg/L		0.1	EPA 353.2	11/14/2013 1332	RH
Sulfate	10	mg/L		1	EPA 300.0	11/16/2013 1045	AMB
Calcium	48	mg/L		1	EPA 200.7	11/14/2013 1522	DG
Magnesium	9	mg/L		1	EPA 200.7	11/14/2013 1522	DG
Potassium	5	mg/L		1	EPA 200.7	11/14/2013 1522	DG
Sodium	18	mg/L		1	EPA 200.7	11/14/2013 1522	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1102	RH
Silica as SiO2	57	mg/L		1	EPA 200.7	11/14/2013 1522	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2210	KV
Electrical Conductivity	398	µmhos/cm		1	SM 2510B	11/14/2013 2210	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	11/13/2013 1511	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.99	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	4.09	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	1.23	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-008
ClientSample ID: AOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1522	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	11/13/2013 2101	MS
Barium	0.1	mg/L		0.1	EPA 200.8	11/13/2013 2101	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1522	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2101	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1522	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2101	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1522	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2101	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1522	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1218	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2101	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1522	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2101	MS
Uranium	0.0067	mg/L		0.0003	EPA 200.8	11/13/2013 2101	MS
Uranium Activity	4.5	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2101	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1522	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	11/15/2013 1603	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1020	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1020	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/26/2013 808	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/26/2013 808	MB
Thorium 229 Tracer (30-120)	76	%			ACW10	11/26/2013 808	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-008
ClientSample ID: AOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/04/2013 1703	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 1703	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/04/2013 718	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/04/2013 718	MB
Thorium 229 Tracer (30-120)	74	%			ACW10	12/04/2013 718	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

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Your Environmental Monitoring Partner

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: S1402335-001
ClientSample ID: AOW 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)	185	mg/L		5	SM 2320B	02/27/2014 2146	KV
Alkalinity, Bicarbonate as HCO3	219	mg/L		1	SM 2320B	02/27/2014 2146	KV
Alkalinity, Carbonate as CO3	3	mg/L		1	SM 2320B	02/27/2014 2146	KV
Chloride	2	mg/L		1	EPA 300.0	03/07/2014 045	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	02/27/2014 2146	KV
Nitrogen, Nitrate+Nitrite (as N)	2.0	mg/L		0.1	EPA 353.2	03/03/2014 1456	RH
Sulfate	4	mg/L		1	EPA 300.0	03/07/2014 045	AMB
Calcium	37	mg/L		1	EPA 200.7	02/28/2014 1459	DG
Magnesium	17	mg/L		1	EPA 200.7	02/28/2014 1459	DG
Potassium	2	mg/L		1	EPA 200.7	02/28/2014 1459	DG
Sodium	14	mg/L		1	EPA 200.7	02/28/2014 1459	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/06/2014 1242	RH
Silica as SiO2	73	mg/L		1	EPA 200.7	02/28/2014 1459	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	02/27/2014 2146	KV
Electrical Conductivity	360	µmhos/cm		1	SM 2510B	02/27/2014 2146	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	02/27/2014 1400	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.92	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	4.01	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	1.15	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.89	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, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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: S1402335-001
ClientSample ID: AOW 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	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1459	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	02/27/2014 2034	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2034	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1459	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2034	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1459	DG
Copper	0.01	mg/L		0.01	EPA 200.8	02/27/2014 2034	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1459	DG
Lead	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2034	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1459	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 924	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2034	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1459	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2034	MS
Uranium	0.0068	mg/L		0.0003	EPA 200.8	02/27/2014 2034	MS
Uranium Activity	4.6	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2034	MS
Zinc	1.08	mg/L		0.01	EPA 200.7	02/28/2014 1459	DG
Metals - Suspended							
Uranium	0.0006	mg/L		0.0003	EPA 200.8	03/06/2014 2112	MS
Uranium Activity	0.4	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/11/2014 1220	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/11/2014 1220	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 1040	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/17/2014 1040	MB
Thorium 229 Tracer (30-120)	87	%			ACW10	03/17/2014 1040	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-001	**CollectionDate:**	2/25/2014
ClientSample ID:	AOW 3	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**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 (±)	0.04	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 (±)	0.03	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	100	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-002	**CollectionDate:**	2/25/2014
ClientSample ID:	AOW 4	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	148	mg/L		5	SM 2320B	02/27/2014 2158	KV
Alkalinity, Bicarbonate as HCO3	174	mg/L		1	SM 2320B	02/27/2014 2158	KV
Alkalinity, Carbonate as CO3	3	mg/L		1	SM 2320B	02/27/2014 2158	KV
Chloride	5	mg/L		1	EPA 300.0	03/07/2014 059	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	02/27/2014 2158	KV
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	03/03/2014 1457	RH
Sulfate	9	mg/L		1	EPA 300.0	03/07/2014 059	AMB
Calcium	36	mg/L		1	EPA 200.7	02/28/2014 1501	DG
Magnesium	6	mg/L		1	EPA 200.7	02/28/2014 1501	DG
Potassium	4	mg/L		1	EPA 200.7	02/28/2014 1501	DG
Sodium	26	mg/L		1	EPA 200.7	02/28/2014 1501	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 923	RH
Silica as SiO2	63	mg/L		1	EPA 200.7	02/28/2014 1501	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	02/27/2014 2158	KV
Electrical Conductivity	316	µmhos/cm		1	SM 2510B	02/27/2014 2158	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	02/27/2014 1401	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.58	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	3.37	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	3.04	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-002
ClientSample ID: AOW 4
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 1501	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	02/27/2014 2028	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2028	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1501	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2028	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1501	DG
Copper	0.01	mg/L		0.01	EPA 200.8	02/27/2014 2028	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1501	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/27/2014 2028	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1501	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 932	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2028	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1501	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2028	MS
Uranium	0.0041	mg/L		0.0003	EPA 200.8	02/27/2014 2028	MS
Uranium Activity	2.8	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2028	MS
Zinc	0.29	mg/L		0.01	EPA 200.7	02/28/2014 1501	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2133	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 1040	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/17/2014 1040	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	03/17/2014 1040	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-002
ClientSample ID: AOW 4
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 (±)	0.4	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 (±)	0.03	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)	98	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-001
ClientSample ID: AOW 5
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 1:40:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	154	mg/L		5	SM 2320B	03/01/2014 622	KV
Alkalinity, Bicarbonate as HCO3	188	mg/L		1	SM 2320B	03/01/2014 622	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	03/01/2014 622	KV
Chloride	3	mg/L		1	EPA 300.0	03/10/2014 1732	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	03/01/2014 622	KV
Nitrogen, Nitrate+Nitrite (as N)	1.1	mg/L		0.1	EPA 353.2	03/03/2014 1516	RH
Sulfate	7	mg/L		1	EPA 300.0	03/10/2014 1732	AMB
Calcium	33	mg/L		1	EPA 200.7	03/03/2014 1603	DG
Magnesium	8	mg/L		1	EPA 200.7	03/03/2014 1603	DG
Potassium	4	mg/L		1	EPA 200.7	03/03/2014 1603	DG
Sodium	18	mg/L		1	EPA 200.7	03/03/2014 1603	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1009	RH
Silica as SiO2	67	mg/L		1	EPA 200.7	03/03/2014 1603	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	03/01/2014 622	KV
Electrical Conductivity	319	µmhos/cm		1	SM 2510B	03/01/2014 622	KV
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	03/03/2014 1508	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.22	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.40	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	2.83	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	03/25/2014 1153	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-001
ClientSample ID: AOW 5
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 1:40:00 PM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1603	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	02/28/2014 2218	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2218	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1603	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2218	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1603	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2218	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1603	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2218	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1603	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1005	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2218	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1603	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2218	MS
Uranium	0.0077	mg/L		0.0003	EPA 200.8	02/28/2014 2218	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2218	MS
Zinc	0.10	mg/L		0.01	EPA 200.7	03/03/2014 1603	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2321	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1232	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1232	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/18/2014 1003	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/18/2014 1003	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	03/18/2014 1003	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-001
ClientSample ID: AOW 5
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 1:40:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 911	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 911	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1309	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1309	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 1127	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/24/2014 1127	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	03/24/2014 1127	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-002
ClientSample ID: AOW 6
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:50:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	163	mg/L		5	SM 2320B	03/01/2014 633	KV
Alkalinity, Bicarbonate as HCO3	199	mg/L		1	SM 2320B	03/01/2014 633	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	03/01/2014 633	KV
Chloride	5	mg/L		1	EPA 300.0	03/10/2014 1746	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	03/01/2014 633	KV
Nitrogen, Nitrate+Nitrite (as N)	2.3	mg/L		0.1	EPA 353.2	03/03/2014 1517	RH
Sulfate	11	mg/L		1	EPA 300.0	03/10/2014 1746	AMB
Calcium	42	mg/L		1	EPA 200.7	03/03/2014 1606	DG
Magnesium	8	mg/L		1	EPA 200.7	03/03/2014 1606	DG
Potassium	5	mg/L		1	EPA 200.7	03/03/2014 1606	DG
Sodium	19	mg/L		1	EPA 200.7	03/03/2014 1606	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1010	RH
Silica as SiO2	60	mg/L		1	EPA 200.7	03/03/2014 1606	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	03/01/2014 633	KV
Electrical Conductivity	362	µmhos/cm		1	SM 2510B	03/01/2014 633	KV
Total Dissolved Solids (180)	280	mg/L		10	SM 2540	03/03/2014 1509	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.62	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.82	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	2.64	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	03/25/2014 1153	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- B Analyte detected in the associated Method Blank
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- E Value above quantitation range
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- 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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Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-002
ClientSample ID: AOW 6
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:50:00 AM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1606	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	02/28/2014 2239	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2239	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1606	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2239	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1606	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2239	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1606	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2239	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1606	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1007	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2239	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1606	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2239	MS
Uranium	0.0070	mg/L		0.0003	EPA 200.8	02/28/2014 2239	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2239	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1606	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2327	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/18/2014 1003	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	03/18/2014 1003	MB
Thorium 229 Tracer (30-120)	94	%			ACW10	03/18/2014 1003	MB

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

Qualifiers:

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- E Value above quantitation range
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- 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

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-002
ClientSample ID: AOW 6
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:50:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.02	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 1127	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	03/24/2014 1127	MB
Thorium 229 Tracer (30-120)	96	%			ACW10	03/24/2014 1127	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-003
ClientSample ID: AOW 8
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 11:00:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	138	mg/L		5	SM 2320B	03/12/2014 1454	KV
Alkalinity, Bicarbonate as HCO3	169	mg/L		1	SM 2320B	03/12/2014 1454	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	03/12/2014 1454	KV
Chloride	5	mg/L		1	EPA 300.0	03/12/2014 015	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	03/01/2014 709	KV
Nitrogen, Nitrate+Nitrite (as N)	1.6	mg/L		0.1	EPA 353.2	03/03/2014 1518	RH
Sulfate	3	mg/L		1	EPA 300.0	03/10/2014 1759	AMB
Calcium	33	mg/L		1	EPA 200.7	03/12/2014 1254	DG
Magnesium	11	mg/L		1	EPA 200.7	03/12/2014 1254	DG
Potassium	1	mg/L		1	EPA 200.7	03/12/2014 1254	DG
Sodium	6	mg/L		1	EPA 200.7	03/12/2014 1254	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1011	RH
Silica as SiO2	74	mg/L		1	EPA 200.7	03/03/2014 1608	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	03/01/2014 709	KV
Electrical Conductivity	288	µmhos/cm		1	SM 2510B	03/01/2014 709	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	03/03/2014 1510	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	2.86	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.09	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (±5%)	3.74	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	220	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.09	dec. %		0.01	Calculation	03/25/2014 1153	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-003
ClientSample ID: AOW 8
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 11:00:00 AM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1608	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	02/28/2014 2244	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2244	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1608	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2244	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1608	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2244	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1608	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2244	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1608	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1009	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2244	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1608	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2244	MS
Uranium	0.0041	mg/L		0.0003	EPA 200.8	02/28/2014 2244	MS
Uranium Activity	2.8	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2244	MS
Zinc	0.20	mg/L		0.01	EPA 200.7	03/03/2014 1608	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2332	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/18/2014 1003	MB
Thorium 230 Precision (±)	0.05	pCi/L			ACW10	03/18/2014 1003	MB
Thorium 229 Tracer (30-120)	71	%			ACW10	03/18/2014 1003	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-003
ClientSample ID: AOW 8
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 11:00:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 2046	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/24/2014 2046	MB
Thorium 229 Tracer (30-120)	110	%			ACW10	03/24/2014 2046	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-004
ClientSample ID: AOW 9
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 10:40:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	160	mg/L		5	SM 2320B	03/01/2014 721	KV
Alkalinity, Bicarbonate as HCO3	194	mg/L		1	SM 2320B	03/01/2014 721	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	03/01/2014 721	KV
Chloride	4	mg/L		1	EPA 300.0	03/10/2014 1812	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	03/01/2014 721	KV
Nitrogen, Nitrate+Nitrite (as N)	1.3	mg/L		0.1	EPA 353.2	03/03/2014 1520	RH
Sulfate	8	mg/L		1	EPA 300.0	03/10/2014 1812	AMB
Calcium	35	mg/L		1	EPA 200.7	03/03/2014 1610	DG
Magnesium	8	mg/L		1	EPA 200.7	03/03/2014 1610	DG
Potassium	4	mg/L		1	EPA 200.7	03/03/2014 1610	DG
Sodium	18	mg/L		1	EPA 200.7	03/03/2014 1610	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1018	RH
Silica as SiO2	67	mg/L		1	EPA 200.7	03/03/2014 1610	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	03/01/2014 721	KV
Electrical Conductivity	333	µmhos/cm		1	SM 2510B	03/01/2014 721	KV
Total Dissolved Solids (180)	270	mg/L		10	SM 2540	03/03/2014 1511	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.26	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.58	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	4.65	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.12	dec. %		0.01	Calculation	03/25/2014 1153	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-004
ClientSample ID: AOW 9
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 10:40:00 AM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1610	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	02/28/2014 2250	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2250	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1610	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2250	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1610	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2250	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1610	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2250	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1610	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1011	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2250	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1610	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2250	MS
Uranium	0.0074	mg/L		0.0003	EPA 200.8	02/28/2014 2250	MS
Uranium Activity	5.0	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2250	MS
Zinc	0.31	mg/L		0.01	EPA 200.7	03/03/2014 1610	DG
Metals - Suspended							
Uranium	0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2338	MS
Uranium Activity	0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	1.0	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1041	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	03/20/2014 1041	MB

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

Qualifiers:

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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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	3/31/2014 S1402356001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1402356
Lab ID:	S1402356-004	**CollectionDate:**	2/26/2014 10:40:00 AM
ClientSample ID:	AOW 9	**DateReceived:**	2/28/2014 11:04:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 2046	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/24/2014 2046	MB
Thorium 229 Tracer (30-120)	110	%			ACW10	03/24/2014 2046	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-003
ClientSample ID: AOW 10
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)	156	mg/L		5	SM 2320B	02/27/2014 2210	KV
Alkalinity, Bicarbonate as HCO3	186	mg/L		1	SM 2320B	02/27/2014 2210	KV
Alkalinity, Carbonate as CO3	2	mg/L		1	SM 2320B	02/27/2014 2210	KV
Chloride	6	mg/L		1	EPA 300.0	03/07/2014 232	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	02/27/2014 2210	KV
Nitrogen, Nitrate+Nitrite (as N)	2.1	mg/L		0.1	EPA 353.2	03/03/2014 1459	RH
Sulfate	8	mg/L		1	EPA 300.0	03/07/2014 232	AMB
Calcium	34	mg/L		1	EPA 200.7	02/28/2014 1503	DG
Magnesium	9	mg/L		1	EPA 200.7	02/28/2014 1503	DG
Potassium	3	mg/L		1	EPA 200.7	02/28/2014 1503	DG
Sodium	24	mg/L		1	EPA 200.7	02/28/2014 1503	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 930	RH
Silica as SiO2	65	mg/L		1	EPA 200.7	02/28/2014 1503	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	02/27/2014 2210	KV
Electrical Conductivity	332	µmhos/cm		1	SM 2510B	02/27/2014 2210	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	02/27/2014 1402	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.61	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	3.61	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	<0.01	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-003
ClientSample ID: AOW 10
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 1503	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2039	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/27/2014 2039	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1503	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2039	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1503	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/27/2014 2039	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1503	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/27/2014 2039	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1503	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 934	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2039	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1503	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2039	MS
Uranium	0.0069	mg/L		0.0003	EPA 200.8	02/27/2014 2039	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2039	MS
Zinc	0.23	mg/L		0.01	EPA 200.7	02/28/2014 1503	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2139	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 (±)	0.1	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 (±)	0.04	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 (±)	0.05	pCi/L			ACW10	03/17/2014 1606	MB
Thorium 229 Tracer (30-120)	85	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	3/27/2014 S1402335001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1402335
Lab ID:	S1402335-003	**CollectionDate:**	2/25/2014
ClientSample ID:	AOW 10	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	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 (±)	0.3	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 (±)	0.03	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, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-005
ClientSample ID: AOW 11
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:30:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	171	mg/L		5	SM 2320B	03/01/2014 733	KV
Alkalinity, Bicarbonate as HCO3	207	mg/L		1	SM 2320B	03/01/2014 733	KV
Alkalinity, Carbonate as CO3	1	mg/L		1	SM 2320B	03/01/2014 733	KV
Chloride	7	mg/L		1	EPA 300.0	03/10/2014 1826	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	03/01/2014 733	KV
Nitrogen, Nitrate+Nitrite (as N)	3.1	mg/L		0.1	EPA 353.2	03/03/2014 1521	RH
Sulfate	9	mg/L		1	EPA 300.0	03/10/2014 1826	AMB
Calcium	46	mg/L		1	EPA 200.7	03/03/2014 1612	DG
Magnesium	8	mg/L		1	EPA 200.7	03/03/2014 1612	DG
Potassium	4	mg/L		1	EPA 200.7	03/03/2014 1612	DG
Sodium	16	mg/L		1	EPA 200.7	03/03/2014 1612	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1019	RH
Silica as SiO2	59	mg/L		1	EPA 200.7	03/03/2014 1612	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	03/01/2014 733	KV
Electrical Conductivity	379	µmhos/cm		1	SM 2510B	03/01/2014 733	KV
Total Dissolved Solids (180)	290	mg/L		10	SM 2540	03/03/2014 1512	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.72	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	4.05	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (±5%)	4.15	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.07	dec. %		0.01	Calculation	03/25/2014 1153	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-005
ClientSample ID: AOW 11
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:30:00 AM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1612	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	02/28/2014 2255	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2255	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1612	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2255	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1612	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2255	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1612	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2255	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1612	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1013	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2255	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1612	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2255	MS
Uranium	0.0064	mg/L		0.0003	EPA 200.8	02/28/2014 2255	MS
Uranium Activity	4.3	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2255	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1612	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2343	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	1.1	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1041	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	88	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-005
ClientSample ID: AOW 11
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:30:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.02	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 2046	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	03/24/2014 2046	MB
Thorium 229 Tracer (30-120)	110	%			ACW10	03/24/2014 2046	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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: S1406337-004
ClientSample ID: AOW 3
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	181	mg/L		5	SM 2320B	06/19/2014 1739	BT
Alkalinity, Bicarbonate as HCO3	221	mg/L		1	SM 2320B	06/19/2014 1739	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	06/19/2014 1739	BT
Chloride	1	mg/L		1	EPA 300.0	06/22/2014 1538	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/19/2014 1739	BT
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	06/20/2014 1347	CAW
Sulfate	4	mg/L		1	EPA 300.0	06/22/2014 1538	AMB
Calcium	36	mg/L		1	EPA 200.7	06/19/2014 2036	DG
Magnesium	16	mg/L		1	EPA 200.7	06/19/2014 2036	DG
Potassium	3	mg/L		1	EPA 200.7	06/19/2014 2036	DG
Sodium	12	mg/L		1	EPA 200.7	06/19/2014 2036	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 851	RH
Silica as SiO2	77	mg/L		1	EPA 200.7	06/19/2014 2036	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/19/2014 1739	BT
Electrical Conductivity	347	µmhos/cm		1	SM 2510B	06/19/2014 1739	BT
Total Dissolved Solids (180)	280	mg/L		10	SM 2540	06/19/2014 1507	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.70	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	3.88	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	2.33	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-004
ClientSample ID: AOW 3
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 2036	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/23/2014 142	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 142	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2036	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 142	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2036	DG
Copper	0.02	mg/L		0.01	EPA 200.8	06/23/2014 142	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2036	DG
Lead	0.002	mg/L		0.001	EPA 200.8	06/23/2014 142	MS
Manganese	0.01	mg/L		0.01	EPA 200.7	06/19/2014 2036	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1303	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 142	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2036	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 142	MS
Uranium	0.0052	mg/L		0.0003	EPA 200.8	06/23/2014 142	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 142	MS
Zinc	2.15	mg/L		0.01	EPA 200.7	06/19/2014 2036	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1822	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1038	MB
Lead 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/09/2014 1038	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1002	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	07/10/2014 1002	MB
Radium 226	0.3	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 902	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	07/03/2014 902	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	07/03/2014 902	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-004
ClientSample ID: AOW 3
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	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 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/08/2014 1633	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	07/08/2014 1633	MB
Thorium 229 Tracer (30-120)	90	%			ACW10	07/08/2014 1633	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1406337
Lab ID:	S1406337-005	**CollectionDate:**	6/16/2014
ClientSample ID:	AOW 4	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	150	mg/L		5	SM 2320B	06/19/2014 1751	BT
Alkalinity, Bicarbonate as HCO3	179	mg/L		1	SM 2320B	06/19/2014 1751	BT
Alkalinity, Carbonate as CO3	2	mg/L		1	SM 2320B	06/19/2014 1751	BT
Chloride	4	mg/L		1	EPA 300.0	06/22/2014 1553	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/19/2014 1751	BT
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	06/20/2014 1355	CAW
Sulfate	8	mg/L		1	EPA 300.0	06/22/2014 1553	AMB
Calcium	38	mg/L		1	EPA 200.7	06/19/2014 2050	DG
Magnesium	7	mg/L		1	EPA 200.7	06/19/2014 2050	DG
Potassium	4	mg/L		1	EPA 200.7	06/19/2014 2050	DG
Sodium	17	mg/L		1	EPA 200.7	06/19/2014 2050	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 852	RH
Silica as SiO2	66	mg/L		1	EPA 200.7	06/19/2014 2050	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	06/19/2014 1751	BT
Electrical Conductivity	310	µmhos/cm		1	SM 2510B	06/19/2014 1751	BT
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	06/19/2014 1508	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.32	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	3.35	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	0.40	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-005
ClientSample ID: AOW 4
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 2050	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	06/23/2014 147	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 147	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2050	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 147	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2050	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 147	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2050	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 147	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2050	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1305	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 147	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2050	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	06/23/2014 147	MS
Uranium	0.0051	mg/L		0.0003	EPA 200.8	06/23/2014 147	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 147	MS
Zinc	0.31	mg/L		0.01	EPA 200.7	06/19/2014 2050	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1828	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1038	MB
Lead 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/09/2014 1038	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1002	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	07/10/2014 1002	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 902	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	07/03/2014 902	MB
Thorium 229 Tracer (30-120)	91	%			ACW10	07/03/2014 902	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-005
ClientSample ID: AOW 4
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	1.2	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 (±)	0.1	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	07/08/2014 1633	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	07/08/2014 1633	MB
Thorium 229 Tracer (30-120)	96	%			ACW10	07/08/2014 1633	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-005
ClientSample ID: AOW 5
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:35:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	153	mg/L		5	SM 2320B	06/20/2014 2016	BT
Alkalinity, Bicarbonate as HCO3	183	mg/L		1	SM 2320B	06/20/2014 2016	BT
Alkalinity, Carbonate as CO3	2	mg/L		1	SM 2320B	06/20/2014 2016	BT
Chloride	2	mg/L		1	EPA 300.0	06/26/2014 252	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/20/2014 2016	BT
Nitrogen, Nitrate+Nitrite (as N)	1.2	mg/L		0.1	EPA 353.2	06/24/2014 1351	RH
Sulfate	7	mg/L		1	EPA 300.0	06/26/2014 252	AMB
Calcium	32	mg/L		1	EPA 200.7	06/20/2014 1552	DG
Magnesium	8	mg/L		1	EPA 200.7	06/20/2014 1552	DG
Potassium	4	mg/L		1	EPA 200.7	06/20/2014 1552	DG
Sodium	18	mg/L		1	EPA 200.7	06/20/2014 1552	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 1036	RH
Silica as SiO2	67	mg/L		1	EPA 200.7	06/20/2014 1552	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/20/2014 2016	BT
Electrical Conductivity	300	µmhos/cm		1	SM 2510B	06/20/2014 2016	BT
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	06/20/2014 1117	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.13	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Anion Sum	3.36	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Cation-Anion Balance (± 5%)	3.61	%		0.01	SM 1030E	06/27/2014 848	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	06/27/2014 848	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.09	dec. %		0.01	Calculation	07/28/2014 1348	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-005
ClientSample ID: AOW 5
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:35:00 AM
DateReceived: 6/19/2014 11:30:00 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	06/20/2014 1552	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/23/2014 2347	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 2347	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1552	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 2347	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1552	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 2347	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1552	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 2347	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1552	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	07/01/2014 1023	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2347	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1552	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 2347	MS
Uranium	0.0072	mg/L		0.0003	EPA 200.8	06/23/2014 2347	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2347	MS
Zinc	0.10	mg/L		0.01	EPA 200.7	06/20/2014 1552	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1508	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	07/10/2014 1328	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	07/10/2014 1328	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1222	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	07/10/2014 1222	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/08/2014 943	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/08/2014 943	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	95	%			ACW10	07/07/2014 1616	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-005
ClientSample ID: AOW 5
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:35:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	2.0	pCi/L		1	OTW01	07/21/2014 1209	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	07/21/2014 1209	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	91	%			ACW10	07/08/2014 811	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-002
ClientSample ID: AOW 6
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 9:43:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	159	mg/L		5	SM 2320B	06/20/2014 1941	BT
Alkalinity, Bicarbonate as HCO3	193	mg/L		1	SM 2320B	06/20/2014 1941	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	06/20/2014 1941	BT
Chloride	4	mg/L		1	EPA 300.0	06/26/2014 047	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/20/2014 1941	BT
Nitrogen, Nitrate+Nitrite (as N)	2.4	mg/L		0.1	EPA 353.2	06/20/2014 1643	CAW
Sulfate	10	mg/L		1	EPA 300.0	06/26/2014 047	AMB
Calcium	40	mg/L		1	EPA 200.7	06/20/2014 1545	DG
Magnesium	7	mg/L		1	EPA 200.7	06/20/2014 1545	DG
Potassium	5	mg/L		1	EPA 200.7	06/20/2014 1545	DG
Sodium	18	mg/L		1	EPA 200.7	06/20/2014 1545	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 1027	RH
Silica as SiO2	59	mg/L		1	EPA 200.7	06/20/2014 1545	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/20/2014 1941	BT
Electrical Conductivity	341	µmhos/cm		1	SM 2510B	06/20/2014 1941	BT
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	06/20/2014 1113	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.53	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Anion Sum	3.70	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Cation-Anion Balance (± 5%)	2.37	%		0.01	SM 1030E	06/27/2014 848	JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	06/27/2014 848	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	07/28/2014 1348	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-002
ClientSample ID: AOW 6
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 9:43:00 AM
DateReceived: 6/19/2014 11:30:00 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	06/20/2014 1545	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	06/23/2014 2320	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 2320	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1545	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 2320	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1545	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 2320	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1545	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 2320	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1545	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	07/01/2014 1018	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2320	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1545	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 2320	MS
Uranium	0.0062	mg/L		0.0003	EPA 200.8	06/23/2014 2320	MS
Uranium Activity	4.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2320	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1545	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1441	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	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	07/08/2014 943	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/08/2014 943	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 833	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	07/07/2014 833	MB
Thorium 229 Tracer (30-120)	87	%			ACW10	07/07/2014 833	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	8/8/2014
		Report ID	S1406386001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1406386
Lab ID:	S1406386-002	**CollectionDate:**	6/17/2014 9:43:00 AM
ClientSample ID:	AOW 6	**DateReceived:**	6/19/2014 11:30:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	07/11/2014 1256	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	07/11/2014 1256	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	79	%			ACW10	07/07/2014 1616	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-006
ClientSample ID: AOW 8
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	131	mg/L		5	SM 2320B	06/19/2014 000	BT
Alkalinity, Bicarbonate as HCO3	160	mg/L		1	SM 2320B	06/19/2014 000	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	06/19/2014 000	BT
Chloride	1	mg/L		1	EPA 300.0	06/22/2014 1607	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/19/2014 000	BT
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	06/20/2014 1357	CAW
Sulfate	1	mg/L		1	EPA 300.0	06/22/2014 1607	AMB
Calcium	34	mg/L		1	EPA 200.7	06/19/2014 2052	DG
Magnesium	11	mg/L		1	EPA 200.7	06/19/2014 2052	DG
Potassium	1	mg/L		1	EPA 200.7	06/19/2014 2052	DG
Sodium	6	mg/L		1	EPA 200.7	06/19/2014 2052	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 853	RH
Silica as SiO2	77	mg/L		1	EPA 200.7	06/19/2014 2052	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H+ B	06/19/2014 000	BT
Electrical Conductivity	248	µmhos/cm		1	SM 2510B	06/19/2014 000	BT
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	06/19/2014 1509	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	2.91	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	2.76	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	2.53	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	210	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-006
ClientSample ID: AOW 8
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 2052	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	06/23/2014 153	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 153	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2052	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 153	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2052	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 153	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2052	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 153	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2052	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1307	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 153	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2052	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 153	MS
Uranium	0.0039	mg/L		0.0003	EPA 200.8	06/23/2014 153	MS
Uranium Activity	2.6	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 153	MS
Zinc	0.28	mg/L		0.01	EPA 200.7	06/19/2014 2052	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1833	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1038	MB
Lead 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/09/2014 1038	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1002	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	07/10/2014 1002	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/15/2014 1413	MB
Radium 226 Precision (±)	0.02	pCi/L			SM 7500 Ra-B	07/15/2014 1413	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/03/2014 902	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	07/03/2014 902	MB
Thorium 229 Tracer (30-120)	89	%			ACW10	07/03/2014 902	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	8/8/2014 S1406337001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1406337
Lab ID:	S1406337-006	**CollectionDate:**	6/16/2014
ClientSample ID:	AOW 8	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	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	07/08/2014 1633	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	07/08/2014 1633	MB
Thorium 229 Tracer (30-120)	96	%			ACW10	07/08/2014 1633	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	8/8/2014
		Report ID	S1406386001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1406386
Lab ID:	S1406386-001	**CollectionDate:**	6/17/2014 8:52:00 AM
ClientSample ID:	AOW 9	**DateReceived:**	6/19/2014 11:30:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	161	mg/L		5	SM 2320B	06/20/2014 1930	BT
Alkalinity, Bicarbonate as HCO3	194	mg/L		1	SM 2320B	06/20/2014 1930	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	06/20/2014 1930	BT
Chloride	4	mg/L		1	EPA 300.0	06/26/2014 033	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/20/2014 1930	BT
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	06/20/2014 1642	CAW
Sulfate	8	mg/L		1	EPA 300.0	06/26/2014 033	AMB
Calcium	36	mg/L		1	EPA 200.7	06/20/2014 1543	DG
Magnesium	8	mg/L		1	EPA 200.7	06/20/2014 1543	DG
Potassium	4	mg/L		1	EPA 200.7	06/20/2014 1543	DG
Sodium	18	mg/L		1	EPA 200.7	06/20/2014 1543	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 1026	RH
Silica as SiO2	65	mg/L		1	EPA 200.7	06/20/2014 1543	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/20/2014 1930	BT
Electrical Conductivity	327	µmhos/cm		1	SM 2510B	06/20/2014 1930	BT
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	06/20/2014 1112	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.33	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Anion Sum	3.61	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Cation-Anion Balance (± 5%)	4.11	%		0.01	SM 1030E	06/27/2014 848	JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	06/27/2014 848	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	07/28/2014 1348	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-001
ClientSample ID: AOW 9
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 8:52:00 AM
DateReceived: 6/19/2014 11:30:00 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	06/20/2014 1543	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	06/23/2014 2314	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2314	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1543	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 2314	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1543	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 2314	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1543	DG
Lead	0.001	mg/L		0.001	EPA 200.8	06/23/2014 2314	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1543	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	07/01/2014 1008	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2314	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1543	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	06/23/2014 2314	MS
Uranium	0.0077	mg/L		0.0003	EPA 200.8	06/23/2014 2314	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2314	MS
Zinc	0.40	mg/L		0.01	EPA 200.7	06/20/2014 1543	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1420	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Radionuclides - Dissolved							
Lead 210	1.4	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	07/09/2014 1302	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1116	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	07/10/2014 1116	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/08/2014 943	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/08/2014 943	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 833	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	07/07/2014 833	MB
Thorium 229 Tracer (30-120)	82	%			ACW10	07/07/2014 833	MB

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

Qualifiers:

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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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-001
ClientSample ID: AOW 9
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 8:52:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	07/11/2014 1256	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	07/11/2014 1256	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	93	%			ACW10	07/07/2014 1616	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-007
ClientSample ID: AOW 10
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	154	mg/L		5	SM 2320B	06/19/2014 1846	BT
Alkalinity, Bicarbonate as HCO3	186	mg/L		1	SM 2320B	06/19/2014 1846	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	06/19/2014 1846	BT
Chloride	3	mg/L		1	EPA 300.0	06/22/2014 1733	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/19/2014 1846	BT
Nitrogen, Nitrate+Nitrite (as N)	2.4	mg/L		0.1	EPA 353.2	06/20/2014 1358	CAW
Sulfate	6	mg/L		1	EPA 300.0	06/22/2014 1733	AMB
Calcium	34	mg/L		1	EPA 200.7	06/19/2014 2054	DG
Magnesium	9	mg/L		1	EPA 200.7	06/19/2014 2054	DG
Potassium	4	mg/L		1	EPA 200.7	06/19/2014 2054	DG
Sodium	20	mg/L		1	EPA 200.7	06/19/2014 2054	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 900	RH
Silica as SiO2	68	mg/L		1	EPA 200.7	06/19/2014 2054	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/19/2014 1846	BT
Electrical Conductivity	324	µmhos/cm		1	SM 2510B	06/19/2014 1846	BT
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	06/19/2014 1510	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.44	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	3.51	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	0.92	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-007
ClientSample ID: AOW 10
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 2054	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	06/23/2014 158	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 158	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2054	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 158	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2054	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 158	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2054	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 158	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2054	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1313	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 158	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2054	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 158	MS
Uranium	0.0069	mg/L		0.0003	EPA 200.8	06/23/2014 158	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 158	MS
Zinc	0.26	mg/L		0.01	EPA 200.7	06/19/2014 2054	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1838	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/09/2014 1302	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1116	MB
Polonium 210 (Dissolved) Precision (±)	0.1	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 (±)	0.03	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 (±)	0.0	pCi/L			ACW10	07/03/2014 1336	MB
Thorium 229 Tracer (30-120)	75	%			ACW10	07/03/2014 1336	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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: S1406337-007
ClientSample ID: AOW 10
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	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 (±)	0.1	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	95	%			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, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-004
ClientSample ID: AOW 11
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:24:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	167	mg/L		5	SM 2320B	06/20/2014 2004	BT
Alkalinity, Bicarbonate as HCO3	201	mg/L		1	SM 2320B	06/20/2014 2004	BT
Alkalinity, Carbonate as CO3	1	mg/L		1	SM 2320B	06/20/2014 2004	BT
Chloride	7	mg/L		1	EPA 300.0	06/26/2014 238	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/20/2014 2004	BT
Nitrogen, Nitrate+Nitrite (as N)	3.3	mg/L		0.1	EPA 353.2	06/24/2014 1343	RH
Sulfate	9	mg/L		1	EPA 300.0	06/26/2014 238	AMB
Calcium	46	mg/L		1	EPA 200.7	06/20/2014 1549	DG
Magnesium	8	mg/L		1	EPA 200.7	06/20/2014 1549	DG
Potassium	5	mg/L		1	EPA 200.7	06/20/2014 1549	DG
Sodium	16	mg/L		1	EPA 200.7	06/20/2014 1549	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 1029	RH
Silica as SiO2	59	mg/L		1	EPA 200.7	06/20/2014 1549	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/20/2014 2004	BT
Electrical Conductivity	366	µmhos/cm		1	SM 2510B	06/20/2014 2004	BT
Total Dissolved Solids (180)	280	mg/L		10	SM 2540	06/20/2014 1116	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.81	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Anion Sum	3.99	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Cation-Anion Balance (± 5%)	2.30	%		0.01	SM 1030E	06/27/2014 848	JJ
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	06/27/2014 848	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	07/28/2014 1348	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-004
ClientSample ID: AOW 11
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:24:00 AM
DateReceived: 6/19/2014 11:30:00 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	06/20/2014 1549	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	06/23/2014 2341	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 2341	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1549	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 2341	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1549	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 2341	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1549	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 2341	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1549	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	07/01/2014 1021	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2341	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1549	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 2341	MS
Uranium	0.0065	mg/L		0.0003	EPA 200.8	06/23/2014 2341	MS
Uranium Activity	4.4	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2341	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1549	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1503	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/09/2014 1302	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1116	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	07/10/2014 1116	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/08/2014 943	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/08/2014 943	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	75	%			ACW10	07/07/2014 1616	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-004
ClientSample ID: AOW 11
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:24:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	07/11/2014 1256	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	07/11/2014 1256	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	95	%			ACW10	07/08/2014 811	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/10/2015
Report ID S1409373002
(Replaces S1409373001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-001
ClientSample ID: AOW-3
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	169	mg/L		5	SM 2320B	09/24/2014 1153	BT
Alkalinity, Bicarbonate as HCO3	206	mg/L		1	SM 2320B	09/24/2014 1153	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	09/24/2014 1153	BT
Chloride	2	mg/L		1	EPA 300.0	09/24/2014 1509	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	09/19/2014 1800	BT
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	10/07/2014 1217	AMB
Sulfate	4	mg/L		1	EPA 300.0	09/23/2014 257	AB
Calcium	34	mg/L		1	EPA 200.7	09/24/2014 1305	DG
Magnesium	14	mg/L		1	EPA 200.7	09/24/2014 1305	DG
Potassium	2	mg/L		1	EPA 200.7	09/24/2014 1305	DG
Sodium	13	mg/L		1	EPA 200.7	09/19/2014 1512	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/26/2014 906	LJK
Silica as SiO2	64	mg/L		1	EPA 200.7	09/19/2014 1512	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	09/19/2014 1800	BT
Electrical Conductivity	348	µmhos/cm		1	SM 2510B	09/19/2014 1800	BT
Total Dissolved Solids (180)	300	mg/L		10	SM 2540	09/19/2014 1123	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.51	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Anion Sum	3.61	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Cation-Anion Balance (± 5%)	1.36	%		0.01	SM 1030E	09/30/2014 1121	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	09/30/2014 1121	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.25	dec. %		0.01	Calculation	10/13/2014 1201	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/10/2015
Report ID S1409373002
(Replaces S1409373001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-001
ClientSample ID: AOW-3
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 1512	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	09/19/2014 327	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/19/2014 327	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/19/2014 1512	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/19/2014 327	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/19/2014 1512	DG
Copper	0.01	mg/L		0.01	EPA 200.8	09/19/2014 327	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/19/2014 1512	DG
Lead	0.002	mg/L		0.001	EPA 200.8	09/19/2014 327	MS
Manganese	0.01	mg/L		0.01	EPA 200.7	09/19/2014 1512	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/24/2014 1047	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/19/2014 327	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/19/2014 1512	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/19/2014 327	MS
Uranium	0.0041	mg/L		0.0003	EPA 200.8	09/19/2014 327	MS
Uranium Activity	2.8E-9	µCi/ml		2.0E-10	Calculation	10/13/2014 1201	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/19/2014 327	MS
Zinc	1.38	mg/L		0.01	EPA 200.7	09/19/2014 1512	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	10/08/2014 1759	MS
Uranium Activity	3.0E-10	µCi/ml		2.0E-10	Calculation	10/13/2014 1201	WN
Radionuclides - Dissolved							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/20/2014 1307	MB
Lead 210 (Dissolved) Precision (±)	3.0E-10	µCi/ml			OTW01	10/20/2014 1307	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/15/2014 1613	MB
Polonium 210 (Dissolved) Precision (±)	2.0E-10	µCi/ml			OTW01	10/15/2014 1613	MB
Radium 226	4.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/13/2014 1601	MB
Radium 226 Precision (±)	1.0E-10	µCi/ml			SM 7500 Ra-B	10/13/2014 1601	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/20/2014 816	MB
Thorium 230 Precision (±)	4.0E-11	µCi/ml			ACW10	10/20/2014 816	MB
Thorium 229 Tracer (30-120)	76	%			ACW10	10/20/2014 816	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/10/2015
Report ID S1409373002
(Replaces S1409373001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-001
ClientSample ID: AOW-3
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	
Radionuclides - Suspended							
Lead 210	1.1E-9	µCi/ml		1.0E-9	OTW01	10/28/2014 1039	MB
Lead 210 (Suspended) Precision (±)	6.0E-10	µCi/ml			OTW01	10/28/2014 1039	MB
Polonium 210	1.2E-9	µCi/ml		1.0E-9	OTW01	10/29/2014 934	MB
Polonium 210 (Suspended) Precision (±)	5.0E-10	µCi/ml			OTW01	10/29/2014 934	MB
Radium 226	6.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/20/2014 1138	MB
Radium 226 (Suspended) Precision (±)	1.0E-10	µCi/ml			SM 7500 Ra-B	10/20/2014 1138	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/24/2014 000	MB
Thorium 230 Precision (±)	1.0E-10	µCi/ml			ACW10	10/24/2014 000	MB
Thorium 229 Tracer (30-120)	99	%			ACW10	10/24/2014 000	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-001
ClientSample ID: AOW-4
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	145	mg/L		5	SM 2320B	09/29/2014 1123	BT
Alkalinity, Bicarbonate as HCO3	173	mg/L		1	SM 2320B	09/29/2014 1123	BT
Alkalinity, Carbonate as CO3	2	mg/L		1	SM 2320B	09/29/2014 1123	BT
Chloride	4	mg/L		1	EPA 300.0	09/29/2014 1424	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/22/2014 2132	BT
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	09/25/2014 1804	AMB
Sulfate	8	mg/L		1	EPA 300.0	09/23/2014 2006	AB
Calcium	35	mg/L		1	EPA 200.7	09/29/2014 1402	DG
Magnesium	6	mg/L		1	EPA 200.7	09/29/2014 1402	DG
Potassium	4	mg/L		1	EPA 200.7	09/29/2014 1402	DG
Sodium	18	mg/L		1	EPA 200.7	09/22/2014 1415	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1638	AMB
Silica as SiO2	60	mg/L		1	EPA 200.7	09/22/2014 1415	DG
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	09/22/2014 2132	BT
Electrical Conductivity	308	µmhos/cm		1	SM 2510B	09/22/2014 2132	BT
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	09/19/2014 1839	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.16	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.27	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	1.64	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	10/16/2014 922	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-001
ClientSample ID: AOW-4
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1415	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/20/2014 428	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 428	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1415	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 428	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1415	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 428	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1415	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 428	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1415	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1015	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 428	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1415	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 428	MS
Uranium	0.0044	mg/L		0.0003	EPA 200.8	09/20/2014 428	MS
Uranium Activity	3.0E-9	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 428	MS
Zinc	0.23	mg/L		0.01	EPA 200.7	09/22/2014 1415	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	10/14/2014 1900	MS
Uranium Activity	3.0E-10	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/27/2014 1039	MB
Lead 210 (Dissolved) Precision (±)	4.0E-10	µCi/ml			OTW01	10/27/2014 1039	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/27/2014 1448	MB
Polonium 210 (Dissolved) Precision (±)	1.0E-10	µCi/ml			OTW01	10/27/2014 1448	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/15/2014 1302	MB
Radium 226 Precision (±)	4.0E-11	µCi/ml			SM 7500 Ra-B	10/15/2014 1302	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/22/2014 857	MB
Thorium 230 Precision (±)	4.0E-11	µCi/ml			ACW10	10/22/2014 857	MB
Thorium 229 Tracer (30-120)	86	%			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	Spike Recovery outside accepted recovery limits
X	Matrix Effect

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-001
ClientSample ID: AOW-4
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.3E-9	µCi/ml		1.0E-9	OTW01	11/13/2014 1628	MB
Lead 210 (Suspended) Precision (±)	6.0E-10	µCi/ml			OTW01	11/13/2014 1628	MB
Polonium 210	1.1E-9	µCi/ml		1.0E-9	OTW01	11/12/2014 1529	MB
Polonium 210 (Suspended) Precision (±)	5.0E-10	µCi/ml			OTW01	11/12/2014 1529	MB
Radium 226	3.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	1.0E-10	µCi/ml			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	1.0E-10	µCi/ml			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	78	%			ACW10	10/30/2014 1002	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-002
ClientSample ID: AOW-5
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	147	mg/L		5	SM 2320B	09/26/2014 1251	BT
Alkalinity, Bicarbonate as HCO3	179	mg/L		1	SM 2320B	09/26/2014 1251	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	09/26/2014 1251	BT
Chloride	2	mg/L		1	EPA 300.0	09/25/2014 2019	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/22/2014 2145	BT
Nitrogen, Nitrate+Nitrite (as N)	1.2	mg/L		0.1	EPA 353.2	09/25/2014 1805	AMB
Sulfate	7	mg/L		1	EPA 300.0	09/23/2014 2017	AB
Calcium	32	mg/L		1	EPA 200.7	09/26/2014 1338	DG
Magnesium	8	mg/L		1	EPA 200.7	09/26/2014 1338	DG
Potassium	4	mg/L		1	EPA 200.7	09/26/2014 1338	DG
Sodium	20	mg/L		1	EPA 200.7	09/22/2014 1417	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1639	AMB
Silica as SiO2	64	mg/L		1	EPA 200.7	09/22/2014 1417	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2145	BT
Electrical Conductivity	312	µmhos/cm		1	SM 2510B	09/22/2014 2145	BT
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	09/19/2014 1840	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.23	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.25	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	0.32	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	10/16/2014 922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-002
ClientSample ID: AOW-5
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1417	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/20/2014 434	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 434	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1417	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 434	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1417	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 434	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1417	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 434	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1417	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1017	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 434	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1417	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 434	MS
Uranium	0.0071	mg/L		0.0003	EPA 200.8	09/20/2014 434	MS
Uranium Activity	4.8E-9	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 434	MS
Zinc	0.10	mg/L		0.01	EPA 200.7	09/22/2014 1417	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 1932	MS
Uranium Activity	<2.0E-10	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/27/2014 1243	MB
Lead 210 (Dissolved) Precision (±)	4.0E-10	µCi/ml			OTW01	10/27/2014 1243	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/27/2014 1550	MB
Polonium 210 (Dissolved) Precision (±)	1.0E-10	µCi/ml			OTW01	10/27/2014 1550	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/15/2014 1302	MB
Radium 226 Precision (±)	5.0E-11	µCi/ml			SM 7500 Ra-B	10/15/2014 1302	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/22/2014 857	MB
Thorium 230 Precision (±)	1.0E-10	µCi/ml			ACW10	10/22/2014 857	MB
Thorium 229 Tracer (30-120)	86	%			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
- 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

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-002
ClientSample ID: AOW-5
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.4E-9	µCi/ml		1.0E-9	OTW01	11/13/2014 1628	MB
Lead 210 (Suspended) Precision (±)	6.0E-10	µCi/ml			OTW01	11/13/2014 1628	MB
Polonium 210	1.9E-9	µCi/ml		1.0E-9	OTW01	11/12/2014 1529	MB
Polonium 210 (Suspended) Precision (±)	6.0E-10	µCi/ml			OTW01	11/12/2014 1529	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	4.0E-11	µCi/ml			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	2.0E-11	µCi/ml			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	93	%			ACW10	10/30/2014 1002	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-003
ClientSample ID: AOW-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	162	mg/L		5	SM 2320B	09/22/2014 2157	BT
Alkalinity, Bicarbonate as HCO3	185	mg/L		1	SM 2320B	09/22/2014 2157	BT
Alkalinity, Carbonate as CO3	6	mg/L		1	SM 2320B	09/22/2014 2157	BT
Chloride	4	mg/L		1	EPA 300.0	09/23/2014 2028	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/22/2014 2157	BT
Nitrogen, Nitrate+Nitrite (as N)	2.5	mg/L		0.1	EPA 353.2	09/25/2014 1807	AMB
Sulfate	10	mg/L		1	EPA 300.0	09/23/2014 2028	AB
Calcium	40	mg/L		1	EPA 200.7	09/22/2014 1419	DG
Magnesium	8	mg/L		1	EPA 200.7	09/22/2014 1419	DG
Potassium	5	mg/L		1	EPA 200.7	09/22/2014 1419	DG
Sodium	18	mg/L		1	EPA 200.7	09/22/2014 1419	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1640	AMB
Silica as SiO2	57	mg/L		1	EPA 200.7	09/22/2014 1419	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2157	BT
Electrical Conductivity	360	µmhos/cm		1	SM 2510B	09/22/2014 2157	BT
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	09/19/2014 1841	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.54	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.77	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	3.12	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	10/16/2014 922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-003
ClientSample ID: AOW-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1419	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/20/2014 439	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 439	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1419	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 439	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1419	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 439	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1419	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 439	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1419	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1019	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 439	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1419	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 439	MS
Uranium	0.0062	mg/L		0.0003	EPA 200.8	09/20/2014 439	MS
Uranium Activity	4.2E-9	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 439	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1419	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 1937	MS
Uranium Activity	<2.0E-10	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/27/2014 1243	MB
Lead 210 (Dissolved) Precision (±)	4.0E-10	µCi/ml			OTW01	10/27/2014 1243	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/27/2014 1550	MB
Polonium 210 (Dissolved) Precision (±)	2.0E-10	µCi/ml			OTW01	10/27/2014 1550	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/15/2014 1302	MB
Radium 226 Precision (±)	3.0E-11	µCi/ml			SM 7500 Ra-B	10/15/2014 1302	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.0E+0	µCi/ml			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	75	%			ACW10	10/22/2014 1313	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-003
ClientSample ID: AOW-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	3.1E-9	µCi/ml		1.0E-9	OTW01	11/13/2014 1628	MB
Lead 210 (Suspended) Precision (±)	7.0E-10	µCi/ml			OTW01	11/13/2014 1628	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	11/12/2014 1529	MB
Polonium 210 (Suspended) Precision (±)	4.0E-10	µCi/ml			OTW01	11/12/2014 1529	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	4.0E-11	µCi/ml			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	5.0E-11	µCi/ml			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	70	%			ACW10	10/30/2014 1002	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/10/2015
Report ID S1409373002
(Replaces S1409373001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-002
ClientSample ID: AOW-8
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	136	mg/L		5	SM 2320B	09/19/2014 1811	BT
Alkalinity, Bicarbonate as HCO3	163	mg/L		1	SM 2320B	09/19/2014 1811	BT
Alkalinity, Carbonate as CO3	2	mg/L		1	SM 2320B	09/19/2014 1811	BT
Chloride	<1	mg/L		1	EPA 300.0	09/23/2014 313	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/19/2014 1811	BT
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	09/25/2014 1748	AMB
Sulfate	2	mg/L		1	EPA 300.0	09/23/2014 313	AB
Calcium	32	mg/L		1	EPA 200.7	09/19/2014 1517	DG
Magnesium	10	mg/L		1	EPA 200.7	09/19/2014 1517	DG
Potassium	1	mg/L		1	EPA 200.7	09/19/2014 1517	DG
Sodium	6	mg/L		1	EPA 200.7	09/19/2014 1517	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/26/2014 907	LJK
Silica as SiO2	78	mg/L		1	EPA 200.7	09/19/2014 1517	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	09/19/2014 1811	BT
Electrical Conductivity	281	µmhos/cm		1	SM 2510B	09/19/2014 1811	BT
Total Dissolved Solids (180)	270	mg/L		10	SM 2540	09/19/2014 1124	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	2.76	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Anion Sum	2.88	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Cation-Anion Balance (± 5%)	2.12	%		0.01	SM 1030E	09/30/2014 1121	JJ
Solids, Total Dissolved (Calc)	220	mg/L		10	SM 1030E	09/30/2014 1121	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.23	dec. %		0.01	Calculation	10/13/2014 1201	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/10/2015
Report ID S1409373002
(Replaces S1409373001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-002
ClientSample ID: AOW-8
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 1517	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	09/19/2014 333	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/19/2014 333	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/19/2014 1517	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/19/2014 333	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/19/2014 1517	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/19/2014 333	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/19/2014 1517	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/19/2014 333	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/19/2014 1517	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/24/2014 1049	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/19/2014 333	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/19/2014 1517	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/19/2014 333	MS
Uranium	0.0038	mg/L		0.0003	EPA 200.8	09/19/2014 333	MS
Uranium Activity	2.6E-9	µCi/ml		2.0E-10	Calculation	10/13/2014 1201	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/19/2014 333	MS
Zinc	0.21	mg/L		0.01	EPA 200.7	09/19/2014 1517	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/08/2014 1831	MS
Uranium Activity	<2.0E-10	µCi/ml		2.0E-10	Calculation	10/13/2014 1201	WN
Radionuclides - Dissolved							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/20/2014 1307	MB
Lead 210 (Dissolved) Precision (±)	3.0E-10	µCi/ml			OTW01	10/20/2014 1307	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/15/2014 1613	MB
Polonium 210 (Dissolved) Precision (±)	2.0E-10	µCi/ml			OTW01	10/15/2014 1613	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/13/2014 1601	MB
Radium 226 Precision (±)	3.0E-11	µCi/ml			SM 7500 Ra-B	10/13/2014 1601	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/20/2014 816	MB
Thorium 230 Precision (±)	4.0E-11	µCi/ml			ACW10	10/20/2014 816	MB
Thorium 229 Tracer (30-120)	69	%			ACW10	10/20/2014 816	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 2/10/2015
Report ID S1409373002
(Replaces S1409373001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-002
ClientSample ID: AOW-8
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	
Radionuclides - Suspended							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/28/2014 1039	MB
Lead 210 (Suspended) Precision (±)	5.0E-10	µCi/ml			OTW01	10/28/2014 1039	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/29/2014 934	MB
Polonium 210 (Suspended) Precision (±)	5.0E-10	µCi/ml			OTW01	10/29/2014 934	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/20/2014 1348	MB
Radium 226 (Suspended) Precision (±)	1.0E-10	µCi/ml			SM 7500 Ra-B	10/20/2014 1348	MB
Thorium 230	2.0E-10	µCi/ml		2.0E-10	ACW10	10/24/2014 000	MB
Thorium 230 Precision (±)	2.0E-10	µCi/ml			ACW10	10/24/2014 000	MB
Thorium 229 Tracer (30-120)	32	%			ACW10	10/24/2014 000	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-004
ClientSample ID: AOW-9
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	154	mg/L		5	SM 2320B	09/22/2014 2208	BT
Alkalinity, Bicarbonate as HCO3	179	mg/L		1	SM 2320B	09/22/2014 2208	BT
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	09/22/2014 2208	BT
Chloride	4	mg/L		1	EPA 300.0	09/23/2014 2040	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/22/2014 2208	BT
Nitrogen, Nitrate+Nitrite (as N)	1.3	mg/L		0.1	EPA 353.2	09/25/2014 1808	AMB
Sulfate	7	mg/L		1	EPA 300.0	09/23/2014 2040	AB
Calcium	34	mg/L		1	EPA 200.7	09/22/2014 1421	DG
Magnesium	8	mg/L		1	EPA 200.7	09/22/2014 1421	DG
Potassium	4	mg/L		1	EPA 200.7	09/22/2014 1421	DG
Sodium	18	mg/L		1	EPA 200.7	09/22/2014 1421	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1641	AMB
Silica as SiO2	64	mg/L		1	EPA 200.7	09/22/2014 1421	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2208	BT
Electrical Conductivity	331	µmhos/cm		1	SM 2510B	09/22/2014 2208	BT
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	09/19/2014 1842	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.25	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.46	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	3.14	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	10/16/2014 922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-004
ClientSample ID: AOW-9
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1421	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/20/2014 506	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 506	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1421	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 506	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1421	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 506	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1421	DG
Lead	0.002	mg/L		0.001	EPA 200.8	09/20/2014 506	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1421	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1021	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 506	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1421	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 506	MS
Uranium	0.0077	mg/L		0.0003	EPA 200.8	09/20/2014 506	MS
Uranium Activity	5.2E-9	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 506	MS
Zinc	0.42	mg/L		0.01	EPA 200.7	09/22/2014 1421	DG
Metals - Suspended							
Uranium	0.0008	mg/L		0.0003	EPA 200.8	10/14/2014 1943	MS
Uranium Activity	5.0E-10	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/28/2014 1243	MB
Lead 210 (Dissolved) Precision (±)	5.0E-10	µCi/ml			OTW01	10/28/2014 1243	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/30/2014 1652	MB
Polonium 210 (Dissolved) Precision (±)	3.0E-10	µCi/ml			OTW01	10/30/2014 1652	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/15/2014 1302	MB
Radium 226 Precision (±)	4.0E-11	µCi/ml			SM 7500 Ra-B	10/15/2014 1302	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.0E+0	µCi/ml			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	82	%			ACW10	10/22/2014 1313	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-004
ClientSample ID: AOW-9
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	4.8E-9	µCi/ml		1.0E-9	OTW01	11/13/2014 1628	MB
Lead 210 (Suspended) Precision (±)	8.0E-10	µCi/ml			OTW01	11/13/2014 1628	MB
Polonium 210	1.3E-9	µCi/ml		1.0E-9	OTW01	11/12/2014 1529	MB
Polonium 210 (Suspended) Precision (±)	6.0E-10	µCi/ml			OTW01	11/12/2014 1529	MB
Radium 226	3.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	1.0E-10	µCi/ml			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	2.0E-10	µCi/ml		2.0E-10	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	1.0E-10	µCi/ml			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	80	%			ACW10	10/30/2014 1002	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-005
ClientSample ID: AOW-10
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	154	mg/L		5	SM 2320B	09/22/2014 2220	BT
Alkalinity, Bicarbonate as HCO3	177	mg/L		1	SM 2320B	09/22/2014 2220	BT
Alkalinity, Carbonate as CO3	6	mg/L		1	SM 2320B	09/22/2014 2220	BT
Chloride	3	mg/L		1	EPA 300.0	09/23/2014 2051	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/22/2014 2220	BT
Nitrogen, Nitrate+Nitrite (as N)	2.3	mg/L		0.1	EPA 353.2	09/25/2014 1809	AMB
Sulfate	7	mg/L		1	EPA 300.0	09/23/2014 2051	AB
Calcium	32	mg/L		1	EPA 200.7	09/22/2014 1424	DG
Magnesium	9	mg/L		1	EPA 200.7	09/22/2014 1424	DG
Potassium	4	mg/L		1	EPA 200.7	09/22/2014 1424	DG
Sodium	20	mg/L		1	EPA 200.7	09/22/2014 1424	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1642	AMB
Silica as SiO2	63	mg/L		1	EPA 200.7	09/22/2014 1424	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2220	BT
Electrical Conductivity	295	µmhos/cm		1	SM 2510B	09/22/2014 2220	BT
Total Dissolved Solids (180)	270	mg/L		10	SM 2540	09/19/2014 1843	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.26	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.52	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	3.72	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.12	dec. %		0.01	Calculation	10/16/2014 922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-005
ClientSample ID: AOW-10
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1424	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/20/2014 527	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 527	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1424	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 527	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1424	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 527	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1424	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 527	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1424	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1023	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 527	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1424	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 527	MS
Uranium	0.0068	mg/L		0.0003	EPA 200.8	09/20/2014 527	MS
Uranium Activity	4.6E-9	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 527	MS
Zinc	0.26	mg/L		0.01	EPA 200.7	09/22/2014 1424	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 1948	MS
Uranium Activity	<2.0E-10	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	1.2E-9	µCi/ml		1.0E-9	OTW01	10/28/2014 1243	MB
Lead 210 (Dissolved) Precision (±)	5.0E-10	µCi/ml			OTW01	10/28/2014 1243	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/30/2014 1652	MB
Polonium 210 (Dissolved) Precision (±)	2.0E-10	µCi/ml			OTW01	10/30/2014 1652	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/15/2014 1302	MB
Radium 226 Precision (±)	4.0E-11	µCi/ml			SM 7500 Ra-B	10/15/2014 1302	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	1.0E-10	µCi/ml			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	88	%			ACW10	10/22/2014 1313	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-005
ClientSample ID: AOW-10
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	4.1E-9	µCi/ml		1.0E-9	OTW01	11/13/2014 1628	MB
Lead 210 (Suspended) Precision (±)	7.0E-10	µCi/ml			OTW01	11/13/2014 1628	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	11/12/2014 1529	MB
Polonium 210 (Suspended) Precision (±)	4.0E-10	µCi/ml			OTW01	11/12/2014 1529	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	4.0E-11	µCi/ml			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	1.0E-10	µCi/ml			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	84	%			ACW10	10/30/2014 1002	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-006
ClientSample ID: AOW-11
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	165	mg/L		5	SM 2320B	09/22/2014 2242	BT
Alkalinity, Bicarbonate as HCO3	194	mg/L		1	SM 2320B	09/22/2014 2242	BT
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	09/22/2014 2242	BT
Chloride	4	mg/L		1	EPA 300.0	09/23/2014 2102	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/22/2014 2242	BT
Nitrogen, Nitrate+Nitrite (as N)	3.2	mg/L		0.1	EPA 353.2	09/25/2014 1810	AMB
Sulfate	9	mg/L		1	EPA 300.0	09/23/2014 2102	AB
Calcium	44	mg/L		1	EPA 200.7	09/22/2014 1428	DG
Magnesium	8	mg/L		1	EPA 200.7	09/22/2014 1428	DG
Potassium	5	mg/L		1	EPA 200.7	09/22/2014 1428	DG
Sodium	15	mg/L		1	EPA 200.7	09/22/2014 1428	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1643	AMB
Silica as SiO2	58	mg/L		1	EPA 200.7	09/22/2014 1428	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2242	BT
Electrical Conductivity	338	µmhos/cm		1	SM 2510B	09/22/2014 2242	BT
Total Dissolved Solids (180)	290	mg/L		10	SM 2540	09/19/2014 1845	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.66	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.86	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	2.60	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.12	dec. %		0.01	Calculation	10/16/2014 922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-006
ClientSample ID: AOW-11
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1428	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	09/20/2014 532	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 532	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1428	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 532	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1428	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 532	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1428	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 532	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1428	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1025	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 532	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1428	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	09/20/2014 532	MS
Uranium	0.0067	mg/L		0.0003	EPA 200.8	09/20/2014 532	MS
Uranium Activity	4.5E-9	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 532	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1428	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 1954	MS
Uranium Activity	<2.0E-10	µCi/ml		2.0E-10	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/28/2014 1243	MB
Lead 210 (Dissolved) Precision (±)	5.0E-10	µCi/ml			OTW01	10/28/2014 1243	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	10/30/2014 1652	MB
Polonium 210 (Dissolved) Precision (±)	2.0E-10	µCi/ml			OTW01	10/30/2014 1652	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	5.0E-11	µCi/ml			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	2.0E-11	µCi/ml			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	85	%			ACW10	10/22/2014 1313	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 2/11/2015
Report ID S1409415002
(Replaces S1409415001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-006
ClientSample ID: AOW-11
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	11/03/2014 000	MB
Lead 210 (Suspended) Precision (±)	5.0E-10	µCi/ml			OTW01	11/03/2014 000	MB
Polonium 210	<1.0E-9	µCi/ml		1.0E-9	OTW01	11/05/2014 000	MB
Polonium 210 (Suspended) Precision (±)	1.0E-10	µCi/ml			OTW01	11/05/2014 000	MB
Radium 226	<2.0E-10	µCi/ml		2.0E-10	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	4.0E-11	µCi/ml			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<2.0E-10	µCi/ml		2.0E-10	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	1.0E-10	µCi/ml			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	81	%			ACW10	10/30/2014 1002	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	308	mg/L		5	SM 2320B	12/13/2013 2239	KV
Alkalinity, Bicarbonate as HCO3	<1	mg/L		1	SM 2320B	12/13/2013 2239	KV
Alkalinity, Carbonate as CO3	69	mg/L		1	SM 2320B	12/13/2013 2239	KV
Chloride	502	mg/L		1	EPA 300.0	12/17/2013 1510	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	12/13/2013 2239	KV
Nitrogen, Nitrate+Nitrite (as N)	0.5	mg/L		0.1	EPA 353.2	12/16/2013 1428	RH
Sulfate	62	mg/L		1	EPA 300.0	12/17/2013 1510	AMB
Calcium	31	mg/L		1	EPA 200.7	12/13/2013 1546	DG
Magnesium	<1	mg/L		1	EPA 200.7	12/13/2013 1546	DG
Potassium	38	mg/L		1	EPA 200.7	12/13/2013 1546	DG
Sodium	409	mg/L		1	EPA 200.7	12/13/2013 1546	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/17/2013 1543	RH
Silica as SiO2	183	mg/L		1	EPA 200.7	12/13/2013 1546	DG
General Parameters							
pH	10.7	s.u.		0.1	SM 4500 H B	12/13/2013 2239	KV
Electrical Conductivity	2300	µmhos/cm		1	SM 2510B	12/13/2013 2239	KV
Total Dissolved Solids (180)	1280	mg/L		10	SM 2540	12/13/2013 1151	EC
Nitrogen, Nitrite (as N)	0.1	mg/L	L	0.1	EPA 353.2	12/12/2013 000	WN
Data Quality							
Cation Sum	20.32	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Anion Sum	21.67	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Cation-Anion Balance (± 5%)	3.22	%		0.01	SM 1030E	12/19/2013 1608	BC
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	12/19/2013 1608	BC
Calculated TDS/TDS Ratio (0.80-1.20)	0.91	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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	01/07/2014 942	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/07/2014 942	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)	81	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1548	DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	12/13/2013 300	MS
Barium	0.1	mg/L		0.1	EPA 200.8	12/13/2013 300	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1548	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/13/2013 300	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1548	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/13/2013 300	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1548	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/13/2013 300	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/13/2013 1548	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/17/2013 1206	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 300	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1548	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	12/13/2013 300	MS
Uranium	0.0016	mg/L		0.0003	EPA 200.8	12/13/2013 300	MS
Uranium Activity	1.1	pCi/L		0.2	Calculation	01/09/2014 1535	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 300	MS
Zinc	0.11	mg/L		0.01	EPA 200.7	12/13/2013 1548	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/18/2013 1746	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 1446	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1446	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	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 Precision (±)	NA	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)	100	%			ACW10	12/30/2013 822	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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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

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	97	mg/L		5	SM 2320B	12/13/2013 2304	KV
Alkalinity, Bicarbonate as HCO3	72	mg/L		1	SM 2320B	12/13/2013 2304	KV
Alkalinity, Carbonate as CO3	23	mg/L		1	SM 2320B	12/13/2013 2304	KV
Chloride	37	mg/L		1	EPA 300.0	12/17/2013 1533	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	12/13/2013 2304	KV
Nitrogen, Nitrate+Nitrite (as N)	0.2	mg/L		0.1	EPA 353.2	12/16/2013 1430	RH
Sulfate	52	mg/L		1	EPA 300.0	12/17/2013 1533	AMB
Calcium	4	mg/L		1	EPA 200.7	12/13/2013 1550	DG
Magnesium	<1	mg/L		1	EPA 200.7	12/13/2013 1550	DG
Potassium	8	mg/L		1	EPA 200.7	12/13/2013 1550	DG
Sodium	79	mg/L		1	EPA 200.7	12/13/2013 1550	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/17/2013 1545	RH
Silica as SiO2	68	mg/L		1	EPA 200.7	12/13/2013 1550	DG
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	12/13/2013 2304	KV
Electrical Conductivity	486	µmhos/cm		1	SM 2510B	12/13/2013 2304	KV
Total Dissolved Solids (180)	340	mg/L		10	SM 2540	12/13/2013 1153	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/12/2013 000	WN
Data Quality							
Cation Sum	3.86	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Anion Sum	4.12	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Cation-Anion Balance (± 5%)	3.27	%		0.01	SM 1030E	12/19/2013 1608	BC
Solids, Total Dissolved (Calc)	310	mg/L		10	SM 1030E	12/19/2013 1608	BC
Calculated TDS/TDS Ratio (0.80-1.20)	1.10	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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1550	DG
Arsenic	0.010	mg/L		0.001	EPA 200.8	12/13/2013 305	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 305	MS
Boron	0.1	mg/L		0.1	EPA 200.7	12/13/2013 1550	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/13/2013 305	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1550	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/13/2013 305	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1550	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/13/2013 305	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/13/2013 1550	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/17/2013 1208	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 305	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1550	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	12/13/2013 305	MS
Uranium	0.0023	mg/L		0.0003	EPA 200.8	12/13/2013 305	MS
Uranium Activity	1.6	pCi/L		0.2	Calculation	01/09/2014 1535	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 305	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	12/13/2013 1550	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/18/2013 1751	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 1446	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1446	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	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/26/2013 1556	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/30/2013 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/30/2013 1234	MB
Thorium 229 Tracer (30-120)	110	%			ACW10	12/30/2013 1234	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

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, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

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: S1312159-004
ClientSample ID: BOW 2010-4A
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)	38	mg/L		5	SM 2320B	12/13/2013 2317	KV
Alkalinity, Bicarbonate as HCO3	46	mg/L		1	SM 2320B	12/13/2013 2317	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	12/13/2013 2317	KV
Chloride	367	mg/L		1	EPA 300.0	12/17/2013 1652	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	12/13/2013 2317	KV
Nitrogen, Nitrate+Nitrite (as N)	<0.1	mg/L		0.1	EPA 353.2	12/16/2013 1432	RH
Sulfate	40	mg/L		1	EPA 300.0	12/17/2013 1652	AMB
Calcium	33	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Magnesium	2	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Potassium	23	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Sodium	210	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/17/2013 1546	RH
Silica as SiO2	26	mg/L		1	EPA 200.7	12/13/2013 1553	DG
General Parameters							
pH	8.1	s.u.		0.1	SM 4500 H B	12/13/2013 2317	KV
Electrical Conductivity	1420	µmhos/cm		1	SM 2510B	12/13/2013 2317	KV
Total Dissolved Solids (180)	730	mg/L		10	SM 2540	12/13/2013 1155	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/12/2013 000	WN
Data Quality							
Cation Sum	11.51	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Anion Sum	11.97	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Cation-Anion Balance (± 5%)	1.96	%		0.01	SM 1030E	12/19/2013 1608	BC
Solids, Total Dissolved (Calc)	720	mg/L		10	SM 1030E	12/19/2013 1608	BC
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1312159-004
ClientSample ID: BOW 2010-4A
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 1553	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	12/13/2013 311	MS
Barium	0.1	mg/L		0.1	EPA 200.8	12/13/2013 311	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1553	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/13/2013 311	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1553	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/13/2013 311	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1553	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/13/2013 311	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/13/2013 1553	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/17/2013 1210	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 311	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1553	DG
Selenium	0.003	mg/L		0.001	EPA 200.8	12/13/2013 311	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	12/13/2013 311	MS
Uranium Activity	0.5	pCi/L		0.2	Calculation	01/09/2014 1535	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 311	MS
Zinc	0.39	mg/L		0.01	EPA 200.7	12/13/2013 1553	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/18/2013 1756	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 1446	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1446	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	1.0	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 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/30/2013 1234	MB
Thorium 229 Tracer (30-120)	120	%			ACW10	12/30/2013 1234	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1312159-004
ClientSample ID: BOW 2010-4A
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	0.9	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 (Suspended) Precision (±)	0.1	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)	80	%			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, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-001
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	150	mg/L		5	SM 2320B	12/19/2013 1650	KV
Alkalinity, Bicarbonate as HCO3	184	mg/L		5	SM 2320B	12/19/2013 1650	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	12/19/2013 1650	KV
Chloride	3	mg/L		1	EPA 300.0	12/19/2013 1633	AMB
Fluoride	1.8	mg/L		0.1	SM 4500FC	12/19/2013 1650	KV
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	12/24/2013 1422	RH
Sulfate	7	mg/L		1	EPA 300.0	12/19/2013 1633	AMB
Calcium	29	mg/L		1	EPA 200.7	12/20/2013 925	DG
Magnesium	7	mg/L		1	EPA 200.7	12/20/2013 925	DG
Potassium	4	mg/L		1	EPA 200.7	12/20/2013 925	DG
Sodium	22	mg/L		1	EPA 200.7	12/20/2013 925	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/27/2013 1341	LJK
Silica as SIO2	66	mg/L		1	EPA 200.7	12/20/2013 925	DG
General Parameters							
pH	8.2	s.u.		0.1	SM 4500 H B	12/19/2013 1650	KV
Electrical Conductivity	327	µmhos/cm		1	SM 2510B	12/19/2013 1650	KV
Total Dissolved Solids (180)	200	mg/L		10	SM 2540	12/18/2013 1411	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/17/2013 000	WN
Data Quality							
Cation Sum	3.08	meq/L		0.01	SM 1030E	01/02/2014 918	JJ
Anion Sum	3.38	meq/L		0.01	SM 1030E	01/02/2014 918	JJ
Cation-Anion Balance (± 5%)	4.59	%		0.01	SM 1030E	01/02/2014 918	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	01/02/2014 918	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.87	dec. %		0.01	Calculation	01/10/2014 822	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-001
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 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	12/20/2013 925	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	12/18/2013 1911	MS
Barium	0.1	mg/L		0.1	EPA 200.8	12/18/2013 1911	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/20/2013 925	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/18/2013 1911	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 925	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/18/2013 1911	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 925	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/18/2013 1911	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/20/2013 925	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/23/2013 1227	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1911	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 925	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	12/18/2013 1911	MS
Uranium	0.0067	mg/L		0.0003	EPA 200.8	12/18/2013 1911	MS
Uranium Activity	4.5	pCi/L		0.2	Calculation	01/10/2014 822	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1911	MS
Zinc	0.12	mg/L		0.01	EPA 200.7	12/20/2013 925	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/20/2013 1620	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	01/10/2014 822	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	01/08/2014 926	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 926	SH
Polonium 210	<1	pCi/L		1	OTW01	01/08/2014 1235	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1235	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/30/2013 1608	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/30/2013 1608	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/07/2014 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/07/2014 803	MB
Thorium 229 Tracer (30-120)	90	%			ACW10	01/07/2014 803	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-001
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	01/08/2014 1233	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1233	SH
Polonium 210	<1	pCi/L		1	OTW01	01/08/2014 1235	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1235	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/30/2013 1608	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/30/2013 1608	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/07/2014 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/07/2014 803	MB
Thorium 229 Tracer (30-120)	82	%			ACW10	01/07/2014 803	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-002
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	137	mg/L		5	SM 2320B	12/19/2013 1659	KV
Alkalinity, Bicarbonate as HCO3	153	mg/L		5	SM 2320B	12/19/2013 1659	KV
Alkalinity, Carbonate as CO3	7	mg/L		1	SM 2320B	12/19/2013 1659	KV
Chloride	13	mg/L		1	EPA 300.0	12/19/2013 1644	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	12/19/2013 1659	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	12/24/2013 1423	RH
Sulfate	10	mg/L		1	EPA 300.0	12/19/2013 1644	AMB
Calcium	29	mg/L		1	EPA 200.7	12/20/2013 927	DG
Magnesium	6	mg/L		1	EPA 200.7	12/20/2013 927	DG
Potassium	5	mg/L		1	EPA 200.7	12/20/2013 927	DG
Sodium	26	mg/L		1	EPA 200.7	12/20/2013 927	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/27/2013 1342	LJK
Silica as SiO2	60	mg/L		1	EPA 200.7	12/20/2013 927	DG
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	12/19/2013 1659	KV
Electrical Conductivity	348	µmhos/cm		1	SM 2510B	12/19/2013 1659	KV
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	12/18/2013 1412	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/17/2013 000	WN
Data Quality							
Cation Sum	3.18	meq/L		0.01	SM 1030E	01/02/2014 918	JJ
Anion Sum	3.41	meq/L		0.01	SM 1030E	01/02/2014 918	JJ
Cation-Anion Balance (± 5%)	3.52	%		0.01	SM 1030E	01/02/2014 918	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	01/02/2014 918	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	01/10/2014 822	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-002
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 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	12/20/2013 927	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	12/18/2013 1916	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1916	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/20/2013 927	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/18/2013 1916	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 927	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/18/2013 1916	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 927	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/18/2013 1916	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/20/2013 927	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/23/2013 1243	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1916	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 927	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	12/18/2013 1916	MS
Uranium	0.0049	mg/L		0.0003	EPA 200.8	12/18/2013 1916	MS
Uranium Activity	3.3	pCi/L		0.2	Calculation	01/10/2014 822	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1916	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	12/20/2013 927	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/20/2013 1652	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	01/10/2014 822	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	01/08/2014 1233	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1233	SH
Polonium 210	<1	pCi/L		1	OTW01	01/08/2014 1235	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1235	SH
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	12/30/2013 1608	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	12/30/2013 1608	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/07/2014 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/07/2014 803	MB
Thorium 229 Tracer (30-120)	85	%			ACW10	01/07/2014 803	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-002
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	01/08/2014 1233	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1233	SH
Polonium 210	<1	pCi/L		1	OTW01	01/08/2014 1235	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1235	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/30/2013 1608	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/30/2013 1608	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/07/2014 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/07/2014 1223	MB
Thorium 229 Tracer (30-120)	81	%			ACW10	01/07/2014 1223	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

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-003
ClientSample ID: BOW 2010-7
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	176	mg/L		5	SM 2320B	12/19/2013 1708	KV
Alkalinity, Bicarbonate as HCO3	184	mg/L		5	SM 2320B	12/19/2013 1708	KV
Alkalinity, Carbonate as CO3	15	mg/L		1	SM 2320B	12/19/2013 1708	KV
Chloride	24	mg/L		1	EPA 300.0	12/19/2013 1655	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	12/19/2013 1708	KV
Nitrogen, Nitrate+Nitrite (as N)	0.7	mg/L		0.1	EPA 353.2	12/24/2013 1424	RH
Sulfate	46	mg/L		1	EPA 300.0	12/19/2013 1655	AMB
Calcium	8	mg/L		1	EPA 200.7	12/20/2013 929	DG
Magnesium	<1	mg/L		1	EPA 200.7	12/20/2013 929	DG
Potassium	10	mg/L		1	EPA 200.7	12/20/2013 929	DG
Sodium	97	mg/L		1	EPA 200.7	12/20/2013 929	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/27/2013 1343	LJK
Silica as SIO2	67	mg/L		1	EPA 200.7	12/20/2013 929	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	12/19/2013 1708	KV
Electrical Conductivity	558	µmhos/cm		1	SM 2510B	12/19/2013 1708	KV
Total Dissolved Solids (180)	360	mg/L		10	SM 2540	12/18/2013 1413	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/17/2013 000	WN
Data Quality							
Cation Sum	4.86	meq/L		0.01	SM 1030E	01/02/2014 918	JJ
Anion Sum	5.22	meq/L		0.01	SM 1030E	01/02/2014 918	JJ
Cation-Anion Balance (± 5%)	3.51	%		0.01	SM 1030E	01/02/2014 918	JJ
Solids, Total Dissolved (Calc)	360	mg/L		10	SM 1030E	01/02/2014 918	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	01/10/2014 822	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-003
ClientSample ID: BOW 2010-7
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 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	12/20/2013 929	DG
Arsenic	0.026	mg/L		0.001	EPA 200.8	12/18/2013 1933	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1933	MS
Boron	0.1	mg/L		0.1	EPA 200.7	12/20/2013 929	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/18/2013 1933	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 929	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/18/2013 1933	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 929	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/18/2013 1933	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/20/2013 929	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/23/2013 1245	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1933	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 929	DG
Selenium	0.139	mg/L		0.001	EPA 200.8	12/18/2013 1933	MS
Uranium	0.0035	mg/L		0.0003	EPA 200.8	12/18/2013 1933	MS
Uranium Activity	2.4	pCi/L		0.2	Calculation	01/10/2014 822	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1933	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	12/20/2013 929	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/20/2013 1657	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	01/10/2014 822	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	01/08/2014 1233	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1233	SH
Polonium 210	<1	pCi/L		1	OTW01	01/08/2014 1235	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1235	SH
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	12/30/2013 1608	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	12/30/2013 1608	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/07/2014 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/07/2014 803	MB
Thorium 229 Tracer (30-120)	77	%			ACW10	01/07/2014 803	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-003
ClientSample ID: BOW 2010-7
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	01/08/2014 1233	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1233	SH
Polonium 210	<1	pCi/L		1	OTW01	01/08/2014 1235	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1235	SH
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	12/30/2013 1608	SH
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	12/30/2013 1608	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/07/2014 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/07/2014 1223	MB
Thorium 229 Tracer (30-120)	87	%			ACW10	01/07/2014 1223	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1312159-005
ClientSample ID: BOW 2010-8
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)	160	mg/L		5	SM 2320B	12/13/2013 2329	KV
Alkalinity, Bicarbonate as HCO3	130	mg/L		1	SM 2320B	12/13/2013 2329	KV
Alkalinity, Carbonate as CO3	32	mg/L		1	SM 2320B	12/13/2013 2329	KV
Chloride	8	mg/L		1	EPA 300.0	12/16/2013 1956	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	12/13/2013 2329	KV
Nitrogen, Nitrate+Nitrite (as N)	0.7	mg/L		0.1	EPA 353.2	12/16/2013 1433	RH
Sulfate	28	mg/L		1	EPA 300.0	12/17/2013 1704	AMB
Calcium	4	mg/L		1	EPA 200.7	12/13/2013 1557	DG
Magnesium	<1	mg/L		1	EPA 200.7	12/13/2013 1557	DG
Potassium	9	mg/L		1	EPA 200.7	12/13/2013 1557	DG
Sodium	76	mg/L		1	EPA 200.7	12/13/2013 1557	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/17/2013 1547	RH
Silica as SiO2	78	mg/L		1	EPA 200.7	12/13/2013 1557	DG
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	12/13/2013 2329	KV
Electrical Conductivity	419	µmhos/cm		1	SM 2510B	12/13/2013 2329	KV
Total Dissolved Solids (180)	280	mg/L		10	SM 2540	12/13/2013 1156	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/12/2013 000	WN
Data Quality							
Cation Sum	3.76	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Anion Sum	4.07	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Cation-Anion Balance (± 5%)	3.95	%		0.01	SM 1030E	12/19/2013 1608	BC
Solids, Total Dissolved (Calc)	300	mg/L		10	SM 1030E	12/19/2013 1608	BC
Calculated TDS/TDS Ratio (0.80-1.20)	0.93	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, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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: S1312159-005
ClientSample ID: BOW 2010-8
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 1557	DG
Arsenic	0.008	mg/L		0.001	EPA 200.8	12/13/2013 316	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 316	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1557	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/13/2013 316	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1557	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/13/2013 316	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1557	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/13/2013 316	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/13/2013 1557	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/17/2013 1211	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 316	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1557	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	12/13/2013 316	MS
Uranium	0.0034	mg/L		0.0003	EPA 200.8	12/13/2013 316	MS
Uranium Activity	2.3	pCi/L		0.2	Calculation	01/09/2014 1535	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 316	MS
Zinc	0.05	mg/L		0.01	EPA 200.7	12/13/2013 1557	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/18/2013 1802	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 1446	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1446	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	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 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)	89	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1312159-005
ClientSample ID: BOW 2010-8
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)	110	%			ACW10	01/02/2014 919	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-009
ClientSample ID: BOW 9
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	155	mg/L		5	SM 2320B	11/14/2013 2222	KV
Alkalinity, Bicarbonate as HCO3	176	mg/L		5	SM 2320B	11/14/2013 2222	KV
Alkalinity, Carbonate as CO3	6	mg/L		1	SM 2320B	11/14/2013 2222	KV
Chloride	10	mg/L		1	EPA 300.0	11/16/2013 1059	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	11/14/2013 2222	KV
Nitrogen, Nitrate+Nitrite (as N)	1.1	mg/L		0.1	EPA 353.2	11/14/2013 1333	RH
Sulfate	9	mg/L		1	EPA 300.0	11/16/2013 1059	AMB
Calcium	30	mg/L		1	EPA 200.7	11/14/2013 1524	DG
Magnesium	8	mg/L		1	EPA 200.7	11/14/2013 1524	DG
Potassium	4	mg/L		1	EPA 200.7	11/14/2013 1524	DG
Sodium	28	mg/L		1	EPA 200.7	11/14/2013 1524	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1109	RH
Silica as SiO2	66	mg/L		1	EPA 200.7	11/14/2013 1524	DG
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	11/14/2013 2222	KV
Electrical Conductivity	346	µmhos/cm		1	SM 2510B	11/14/2013 2222	KV
Total Dissolved Solids (180)	230	mg/L		10	SM 2540	11/13/2013 1512	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.48	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.66	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	2.59	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.92	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-009
ClientSample ID: BOW 9
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1524	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	11/13/2013 2106	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2106	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1524	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2106	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1524	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2106	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1524	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2106	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1524	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1220	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2106	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1524	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2106	MS
Uranium	0.0073	mg/L		0.0003	EPA 200.8	11/13/2013 2106	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2106	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	11/14/2013 1524	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	11/15/2013 1607	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1230	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1230	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/26/2013 808	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/26/2013 808	MB
Thorium 229 Tracer (30-120)	67	%			ACW10	11/26/2013 808	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-009
ClientSample ID: BOW 9
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/04/2013 1703	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 1703	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/04/2013 718	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/04/2013 718	MB
Thorium 229 Tracer (30-120)	71	%			ACW10	12/04/2013 718	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-010
ClientSample ID: BOW 10
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	147	mg/L		5	SM 2320B	11/14/2013 2234	KV
Alkalinity, Bicarbonate as HCO3	172	mg/L		5	SM 2320B	11/14/2013 2234	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	11/14/2013 2234	KV
Chloride	11	mg/L		1	EPA 300.0	11/18/2013 1508	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	11/14/2013 2234	KV
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	11/14/2013 1334	RH
Sulfate	10	mg/L		1	EPA 300.0	11/16/2013 1113	AMB
Calcium	29	mg/L		1	EPA 200.7	11/14/2013 1526	DG
Magnesium	9	mg/L		1	EPA 200.7	11/14/2013 1526	DG
Potassium	4	mg/L		1	EPA 200.7	11/14/2013 1526	DG
Sodium	26	mg/L		1	EPA 200.7	11/14/2013 1526	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1110	RH
Silica as SiO2	66	mg/L		1	EPA 200.7	11/14/2013 1526	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2234	KV
Electrical Conductivity	346	µmhos/cm		1	SM 2510B	11/14/2013 2234	KV
Total Dissolved Solids (180)	230	mg/L		10	SM 2540	11/13/2013 1513	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.44	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.57	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	1.89	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.92	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-010
ClientSample ID: BOW 10
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1526	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	11/13/2013 2122	MS
Barium	0.1	mg/L		0.1	EPA 200.8	11/13/2013 2122	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1526	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2122	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1526	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2122	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1526	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2122	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1526	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1226	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2122	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1526	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2122	MS
Uranium	0.0075	mg/L		0.0003	EPA 200.8	11/13/2013 2122	MS
Uranium Activity	5.1	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2122	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	11/14/2013 1526	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	11/15/2013 1611	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1230	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1230	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1051	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1051	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/26/2013 808	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/26/2013 808	MB
Thorium 229 Tracer (30-120)	55	%			ACW10	11/26/2013 808	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-010
ClientSample ID: BOW 10
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	12/04/2013 1703	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 1703	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/04/2013 718	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/04/2013 718	MB
Thorium 229 Tracer (30-120)	60	%			ACW10	12/04/2013 718	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-011
ClientSample ID: BOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	144	mg/L		5	SM 2320B	11/14/2013 2259	KV
Alkalinity, Bicarbonate as HCO3	170	mg/L		5	SM 2320B	11/14/2013 2259	KV
Alkalinity, Carbonate as CO3	3	mg/L		1	SM 2320B	11/14/2013 2259	KV
Chloride	5	mg/L		1	EPA 300.0	11/16/2013 1126	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	11/14/2013 2259	KV
Nitrogen, Nitrate+Nitrite (as N)	1.5	mg/L		0.1	EPA 353.2	11/14/2013 1335	RH
Sulfate	11	mg/L		1	EPA 300.0	11/16/2013 1126	AMB
Calcium	34	mg/L		1	EPA 200.7	11/14/2013 1528	DG
Magnesium	7	mg/L		1	EPA 200.7	11/14/2013 1528	DG
Potassium	4	mg/L		1	EPA 200.7	11/14/2013 1528	DG
Sodium	19	mg/L		1	EPA 200.7	11/14/2013 1528	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	11/19/2013 1111	RH
Silica as SiO2	59	mg/L		1	EPA 200.7	11/14/2013 1528	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	11/14/2013 2259	KV
Electrical Conductivity	325	µmhos/cm		1	SM 2510B	11/14/2013 2259	KV
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	11/13/2013 1515	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	11/08/2013 000	WN
Data Quality							
Cation Sum	3.19	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Anion Sum	3.38	meq/L		0.01	SM 1030E	12/06/2013 1248	WN
Cation-Anion Balance (± 5%)	2.90	%		0.01	SM 1030E	12/06/2013 1248	WN
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	12/06/2013 1248	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.09	dec. %		0.01	Calculation	12/06/2013 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-011
ClientSample ID: BOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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	11/14/2013 1528	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	11/13/2013 2154	MS
Barium	0.1	mg/L		0.1	EPA 200.8	11/13/2013 2154	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	11/14/2013 1528	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2154	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1528	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	11/13/2013 2154	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1528	DG
Lead	<0.005	mg/L		0.005	EPA 200.8	11/13/2013 2154	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1528	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	11/15/2013 1233	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2154	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	11/14/2013 1528	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	11/13/2013 2154	MS
Uranium	0.0053	mg/L		0.0003	EPA 200.8	11/13/2013 2154	MS
Uranium Activity	3.6	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	11/13/2013 2154	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	11/14/2013 1528	DG
Metals - Suspended							
Uranium	0.0007	mg/L		0.0003	EPA 200.8	11/15/2013 1615	MS
Uranium Activity	0.5	pCi/L		0.2	Calculation	12/06/2013 1253	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	12/03/2013 1230	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/03/2013 1230	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/26/2013 808	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	11/26/2013 808	MB
Thorium 229 Tracer (30-120)	65	%			ACW10	11/26/2013 808	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-011
ClientSample ID: BOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	2.5	pCi/L		1	OTW01	12/04/2013 1703	SH
Lead 210 (Suspended) Precision (±)	1.3	pCi/L			OTW01	12/04/2013 1703	SH
Polonium 210	<1	pCi/L		1	OTW01	12/04/2013 000	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	12/04/2013 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/05/2013 1352	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/05/2013 1352	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/04/2013 718	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/04/2013 718	MB
Thorium 229 Tracer (30-120)	70	%			ACW10	12/04/2013 718	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

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	268	mg/L		5	SM 2320B	02/27/2014 2223	KV
Alkalinity, Bicarbonate as HCO3	<1	mg/L		1	SM 2320B	02/27/2014 2223	KV
Alkalinity, Carbonate as CO3	70	mg/L		1	SM 2320B	02/27/2014 2223	KV
Chloride	435	mg/L		1	EPA 300.0	03/07/2014 1110	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	02/27/2014 2223	KV
Nitrogen, Nitrate+Nitrite (as N)	0.6	mg/L		0.1	EPA 353.2	03/03/2014 1500	RH
Sulfate	43	mg/L		1	EPA 300.0	03/07/2014 245	AMB
Calcium	29	mg/L		1	EPA 200.7	02/28/2014 1506	DG
Magnesium	<1	mg/L		1	EPA 200.7	02/28/2014 1506	DG
Potassium	31	mg/L		1	EPA 200.7	02/28/2014 1506	DG
Sodium	358	mg/L		1	EPA 200.7	02/28/2014 1506	DG
Nitrogen, Ammonia (As N)	0.30	mg/L		0.05	EPA 350.1	03/07/2014 931	RH
Silica as SiO2	180	mg/L		1	EPA 200.7	02/28/2014 1506	DG
General Parameters							
pH	10.7	s.u.		0.1	SM 4500 H B	02/27/2014 2223	KV
Electrical Conductivity	2030	µmhos/cm		1	SM 2510B	02/27/2014 2223	KV
Total Dissolved Solids (180)	1190	mg/L		10	SM 2540	03/20/2014 1217	EC
Nitrogen, Nitrite (as N)	0.2	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	17.82	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	18.58	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	2.10	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	1240	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	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, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	3/27/2014 S1402335001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1402335
Lab ID:	S1402335-004	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-1	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**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

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	
Radionuclides - Suspended							
Lead 210	1.1	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 (±)	0.04	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)	92	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-005	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-2	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	243	mg/L		5	SM 2320B	02/27/2014 2302	KV
Alkalinity, Bicarbonate as HCO3	<1	mg/L		1	SM 2320B	02/27/2014 2302	KV
Alkalinity, Carbonate as CO3	113	mg/L		1	SM 2320B	02/27/2014 2302	KV
Chloride	251	mg/L		1	EPA 300.0	03/07/2014 1124	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	02/27/2014 2302	KV
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	03/03/2014 1501	RH
Sulfate	33	mg/L		1	EPA 300.0	03/07/2014 259	AMB
Calcium	17	mg/L		1	EPA 200.7	02/28/2014 1508	DG
Magnesium	<1	mg/L		1	EPA 200.7	02/28/2014 1508	DG
Potassium	27	mg/L		1	EPA 200.7	02/28/2014 1508	DG
Sodium	253	mg/L		1	EPA 200.7	02/28/2014 1508	DG
Nitrogen, Ammonia (As N)	0.10	mg/L		0.05	EPA 350.1	03/07/2014 932	RH
Silica as SiO2	122	mg/L		1	EPA 200.7	02/28/2014 1508	DG
General Parameters							
pH	10.4	s.u.		0.1	SM 4500 H B	02/27/2014 2302	KV
Electrical Conductivity	1370	µmhos/cm		1	SM 2510B	02/27/2014 2302	KV
Total Dissolved Solids (180)	850	mg/L		10	SM 2540	02/27/2014 1405	EC
Nitrogen, Nitrite (as N)	0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	12.52	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	12.70	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	0.70	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	850	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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
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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1510	DG
Arsenic	0.010	mg/L		0.001	EPA 200.8	02/27/2014 2106	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2106	MS
Boron	0.1	mg/L		0.1	EPA 200.7	02/28/2014 1510	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2106	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1510	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/27/2014 2106	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1510	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/27/2014 2106	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1510	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 940	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2106	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1510	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	02/27/2014 2106	MS
Uranium	0.0024	mg/L		0.0003	EPA 200.8	02/27/2014 2106	MS
Uranium Activity	1.6	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2106	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1510	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2206	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 (±)	0.04	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 (±)	0.03	pCi/L			ACW10	03/17/2014 1606	MB
Thorium 229 Tracer (30-120)	97	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-006	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-3	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**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 1704	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	03/14/2014 1704	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 (±)	0.02	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 (±)	0.03	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	100	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-007
ClientSample ID: BOW 2010-4A
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)	56	mg/L		5	SM 2320B	02/27/2014 2339	KV
Alkalinity, Bicarbonate as HCO3	68	mg/L		1	SM 2320B	02/27/2014 2339	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	02/27/2014 2339	KV
Chloride	293	mg/L		1	EPA 300.0	03/07/2014 1137	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	02/27/2014 2339	KV
Nitrogen, Nitrate+Nitrite (as N)	<0.1	mg/L		0.1	EPA 353.2	03/03/2014 1503	RH
Sulfate	43	mg/L		1	EPA 300.0	03/07/2014 325	AMB
Calcium	24	mg/L		1	EPA 200.7	02/28/2014 1514	DG
Magnesium	2	mg/L		1	EPA 200.7	02/28/2014 1514	DG
Potassium	18	mg/L		1	EPA 200.7	02/28/2014 1514	DG
Sodium	188	mg/L		1	EPA 200.7	02/28/2014 1514	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 934	RH
Silica as SiO2	35	mg/L		1	EPA 200.7	02/28/2014 1514	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	02/27/2014 2339	KV
Electrical Conductivity	1160	µmhos/cm		1	SM 2510B	02/27/2014 2339	KV
Total Dissolved Solids (180)	640	mg/L		10	SM 2540	02/27/2014 1407	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	9.95	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	10.26	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	1.53	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	640	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	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
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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-007
ClientSample ID: BOW 2010-4A
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 1514	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	02/27/2014 2112	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2112	MS
Boron	0.1	mg/L		0.1	EPA 200.7	02/28/2014 1514	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2112	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1514	DG
Copper	0.02	mg/L		0.01	EPA 200.8	02/27/2014 2112	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1514	DG
Lead	0.003	mg/L		0.001	EPA 200.8	02/27/2014 2112	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1514	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 942	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2112	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1514	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2112	MS
Uranium	0.0014	mg/L		0.0003	EPA 200.8	02/27/2014 2112	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 2112	MS
Zinc	1.90	mg/L		0.01	EPA 200.7	02/28/2014 1514	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2212	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	0.8	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 (±)	0.05	pCi/L			ACW10	03/17/2014 1606	MB
Thorium 229 Tracer (30-120)	98	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-007
ClientSample ID: BOW 2010-4A
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	1.9	pCi/L		1	OTW01	03/14/2014 1704	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	03/14/2014 1704	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	0.5	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	03/24/2014 1127	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/24/2014 1127	MB
Thorium 229 Tracer (30-120)	74	%			ACW10	03/24/2014 1127	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-006
ClientSample ID: BOW 2010-5
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 1:40:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	151	mg/L		5	SM 2320B	03/01/2014 745	KV
Alkalinity, Bicarbonate as HCO3	181	mg/L		1	SM 2320B	03/01/2014 745	KV
Alkalinity, Carbonate as CO3	1	mg/L		1	SM 2320B	03/01/2014 745	KV
Chloride	3	mg/L		1	EPA 300.0	03/10/2014 1839	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	03/01/2014 745	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	03/03/2014 1522	RH
Sulfate	8	mg/L		1	EPA 300.0	03/10/2014 1839	AMB
Calcium	30	mg/L		1	EPA 200.7	03/03/2014 1617	DG
Magnesium	7	mg/L		1	EPA 200.7	03/03/2014 1617	DG
Potassium	4	mg/L		1	EPA 200.7	03/03/2014 1617	DG
Sodium	22	mg/L		1	EPA 200.7	03/03/2014 1617	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1020	RH
Silica as SiO2	68	mg/L		1	EPA 200.7	03/03/2014 1617	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	03/01/2014 745	KV
Electrical Conductivity	314	µmhos/cm		1	SM 2510B	03/01/2014 745	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	03/03/2014 1513	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.14	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.34	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	3.16	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	03/25/2014 1153	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-006
ClientSample ID: BOW 2010-5
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 1:40:00 PM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1617	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	02/28/2014 2312	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2312	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1617	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2312	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1617	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2312	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1617	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2312	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1617	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1015	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2312	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1617	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2312	MS
Uranium	0.0076	mg/L		0.0003	EPA 200.8	02/28/2014 2312	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2312	MS
Zinc	0.13	mg/L		0.01	EPA 200.7	03/03/2014 1617	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2348	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1041	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	77	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-006
ClientSample ID: BOW 2010-5
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 1:40:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.02	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 2046	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/24/2014 2046	MB
Thorium 229 Tracer (30-120)	89	%			ACW10	03/24/2014 2046	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-007
ClientSample ID: BOW 2010-6
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 2:10:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	139	mg/L		5	SM 2320B	03/12/2014 1503	KV
Alkalinity, Bicarbonate as HCO3	162	mg/L		1	SM 2320B	03/12/2014 1503	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	03/12/2014 1503	KV
Chloride	11	mg/L		1	EPA 300.0	03/10/2014 1852	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	03/01/2014 757	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	03/03/2014 1523	RH
Sulfate	11	mg/L		1	EPA 300.0	03/12/2014 029	AMB
Calcium	31	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Magnesium	6	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Potassium	5	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Sodium	25	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1021	RH
Silica as SiO2	60	mg/L		1	EPA 200.7	03/03/2014 1630	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	03/01/2014 757	KV
Electrical Conductivity	330	µmhos/cm		1	SM 2510B	03/01/2014 757	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	03/03/2014 1514	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.25	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.42	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (±5%)	2.61	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	03/25/2014 1153	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-007
ClientSample ID: BOW 2010-6
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 2:10:00 PM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1630	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	02/28/2014 2317	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2317	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1630	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2317	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1630	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2317	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1630	DG
Lead	0.001	mg/L		0.001	EPA 200.8	02/28/2014 2317	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1630	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1017	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2317	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1630	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2317	MS
Uranium	0.0056	mg/L		0.0003	EPA 200.8	02/28/2014 2317	MS
Uranium Activity	3.8	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2317	MS
Zinc	0.43	mg/L		0.01	EPA 200.7	03/03/2014 1630	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/07/2014 015	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1041	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	99	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-007
ClientSample ID: BOW 2010-6
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 2:10:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.3	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 2046	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	03/24/2014 2046	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	03/24/2014 2046	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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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	**WorkOrder:**	S1402335
Lab ID:	S1402335-008	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-7	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	183	mg/L		5	SM 2320B	02/27/2014 2350	KV
Alkalinity, Bicarbonate as HCO3	203	mg/L		1	SM 2320B	02/27/2014 2350	KV
Alkalinity, Carbonate as CO3	10	mg/L		1	SM 2320B	02/27/2014 2350	KV
Chloride	16	mg/L		1	EPA 300.0	03/07/2014 339	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	02/27/2014 2350	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	03/03/2014 1504	RH
Sulfate	50	mg/L		1	EPA 300.0	03/07/2014 339	AMB
Calcium	9	mg/L		1	EPA 200.7	02/28/2014 1528	DG
Magnesium	<1	mg/L		1	EPA 200.7	02/28/2014 1528	DG
Potassium	10	mg/L		1	EPA 200.7	02/28/2014 1528	DG
Sodium	98	mg/L		1	EPA 200.7	02/28/2014 1528	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 935	RH
Silica as SiO2	68	mg/L		1	EPA 200.7	02/28/2014 1528	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	02/27/2014 2350	KV
Electrical Conductivity	513	µmhos/cm		1	SM 2510B	02/27/2014 2350	KV
Total Dissolved Solids (180)	370	mg/L		10	SM 2540	02/27/2014 1408	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	4.94	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	5.27	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	3.23	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	370	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	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
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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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-008	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-7	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**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 1528	DG
Arsenic	0.024	mg/L		0.001	EPA 200.8	02/27/2014 2117	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2117	MS
Boron	0.1	mg/L		0.1	EPA 200.7	02/28/2014 1528	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2117	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1528	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/27/2014 2117	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1528	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/27/2014 2117	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1528	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 944	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2117	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1528	DG
Selenium	0.143	mg/L		0.001	EPA 200.8	02/27/2014 2117	MS
Uranium	0.0041	mg/L		0.0003	EPA 200.8	02/27/2014 2117	MS
Uranium Activity	2.8	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2117	MS
Zinc	0.09	mg/L		0.01	EPA 200.7	02/28/2014 1528	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2217	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	0.4	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)	85	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-008	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-7	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	03/14/2014 1704	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	03/14/2014 1704	SH
Polonium 210	<1	pCi/L		1	OTW01	03/17/2014 1544	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/17/2014 1544	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1010	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	03/18/2014 1010	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 1127	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	03/24/2014 1127	MB
Thorium 229 Tracer (30-120)	89	%			ACW10	03/24/2014 1127	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-008
ClientSample ID: BOW 2010-8
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 2:45:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	175	mg/L		5	SM 2320B	03/01/2014 808	KV
Alkalinity, Bicarbonate as HCO3	153	mg/L		1	SM 2320B	03/01/2014 808	KV
Alkalinity, Carbonate as CO3	30	mg/L		1	SM 2320B	03/01/2014 808	KV
Chloride	5	mg/L		1	EPA 300.0	03/10/2014 2012	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	03/01/2014 808	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	03/03/2014 1524	RH
Sulfate	27	mg/L		1	EPA 300.0	03/10/2014 2012	AMB
Calcium	5	mg/L		1	EPA 200.7	03/03/2014 1632	DG
Magnesium	<1	mg/L		1	EPA 200.7	03/03/2014 1632	DG
Potassium	8	mg/L		1	EPA 200.7	03/03/2014 1632	DG
Sodium	81	mg/L		1	EPA 200.7	03/03/2014 1632	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1022	RH
Silica as SiO2	77	mg/L		1	EPA 200.7	03/03/2014 1632	DG
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	03/01/2014 808	KV
Electrical Conductivity	423	µmhos/cm		1	SM 2510B	03/01/2014 808	KV
Total Dissolved Solids (180)	340	mg/L		10	SM 2540	03/03/2014 1515	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.92	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	4.29	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	4.55	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	310	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.10	dec. %		0.01	Calculation	03/25/2014 1153	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-008
ClientSample ID: BOW 2010-8
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 2:45:00 PM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1632	DG
Arsenic	0.008	mg/L		0.001	EPA 200.8	02/28/2014 2322	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2322	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1632	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2322	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1632	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2322	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1632	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2322	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1632	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1022	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2322	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1632	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2322	MS
Uranium	0.0041	mg/L		0.0003	EPA 200.8	02/28/2014 2322	MS
Uranium Activity	2.8	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2322	MS
Zinc	0.05	mg/L		0.01	EPA 200.7	03/03/2014 1632	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/07/2014 037	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1041	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	87	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	3/31/2014 S1402356001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1402356
Lab ID:	S1402356-008	**CollectionDate:**	2/26/2014 2:45:00 PM
ClientSample ID:	BOW 2010-8	**DateReceived:**	2/28/2014 11:04:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.02	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 2046	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/24/2014 2046	MB
Thorium 229 Tracer (30-120)	92	%			ACW10	03/24/2014 2046	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-009
ClientSample ID: BOW 2010-9
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 10:31:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	160	mg/L		5	SM 2320B	03/01/2014 831	KV
Alkalinity, Bicarbonate as HCO3	187	mg/L		1	SM 2320B	03/01/2014 831	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	03/01/2014 831	KV
Chloride	7	mg/L		1	EPA 300.0	03/10/2014 2026	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	03/01/2014 831	KV
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	03/03/2014 1525	RH
Sulfate	7	mg/L		1	EPA 300.0	03/10/2014 2026	AMB
Calcium	34	mg/L		1	EPA 200.7	03/03/2014 1635	DG
Magnesium	9	mg/L		1	EPA 200.7	03/03/2014 1635	DG
Potassium	4	mg/L		1	EPA 200.7	03/03/2014 1635	DG
Sodium	20	mg/L		1	EPA 200.7	03/03/2014 1635	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1023	RH
Silica as SiO2	67	mg/L		1	EPA 200.7	03/03/2014 1635	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	03/01/2014 831	KV
Electrical Conductivity	344	µmhos/cm		1	SM 2510B	03/01/2014 831	KV
Total Dissolved Solids (180)	270	mg/L		10	SM 2540	03/03/2014 1516	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.40	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.65	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	3.59	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	03/25/2014 1153	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-009
ClientSample ID: BOW 2010-9
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 10:31:00 AM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1635	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	02/28/2014 2328	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2328	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1635	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2328	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1635	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2328	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1635	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2328	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1635	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1030	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2328	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1635	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/28/2014 2328	MS
Uranium	0.0081	mg/L		0.0003	EPA 200.8	02/28/2014 2328	MS
Uranium Activity	5.5	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2328	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1635	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/07/2014 042	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1645	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1645	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1634	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	03/20/2014 1634	MB
Thorium 229 Tracer (30-120)	94	%			ACW10	03/20/2014 1634	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-009
ClientSample ID: BOW 2010-9
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 10:31:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/25/2014 801	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/25/2014 801	MB
Thorium 229 Tracer (30-120)	99	%			ACW10	03/25/2014 801	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-009	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-10	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	171	mg/L		5	SM 2320B	02/28/2014 003	KV
Alkalinity, Bicarbonate as HCO3	205	mg/L		1	SM 2320B	02/28/2014 003	KV
Alkalinity, Carbonate as CO3	1	mg/L		1	SM 2320B	02/28/2014 003	KV
Chloride	8	mg/L		1	EPA 300.0	03/07/2014 352	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	02/28/2014 003	KV
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	03/03/2014 1506	RH
Sulfate	8	mg/L		1	EPA 300.0	03/07/2014 352	AMB
Calcium	31	mg/L		1	EPA 200.7	02/28/2014 1530	DG
Magnesium	10	mg/L		1	EPA 200.7	02/28/2014 1530	DG
Potassium	4	mg/L		1	EPA 200.7	02/28/2014 1530	DG
Sodium	27	mg/L		1	EPA 200.7	02/28/2014 1530	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 936	RH
Silica as SIO2	68	mg/L		1	EPA 200.7	02/28/2014 1530	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	02/28/2014 003	KV
Electrical Conductivity	329	µmhos/cm		1	SM 2510B	02/28/2014 003	KV
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	02/27/2014 1409	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.65	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	3.91	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (±5%)	3.51	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	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
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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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1402335-009
ClientSample ID: BOW 2010-10
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 1530	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	02/27/2014 2123	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/27/2014 2123	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1530	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2123	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1530	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/27/2014 2123	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1530	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/27/2014 2123	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1530	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 946	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2123	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1530	DG
Selenium	0.003	mg/L		0.001	EPA 200.8	02/27/2014 2123	MS
Uranium	0.0074	mg/L		0.0003	EPA 200.8	02/27/2014 2123	MS
Uranium Activity	5.0	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2123	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	02/28/2014 1530	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2222	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Radionuclides - Dissolved							
Lead 210	1.4	pCi/L		1	OTW01	03/11/2014 1625	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	03/11/2014 1625	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 (±)	0.03	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 (±)	0.05	pCi/L			ACW10	03/17/2014 1606	MB
Thorium 229 Tracer (30-120)	82	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1402335
Lab ID:	S1402335-009	**CollectionDate:**	2/25/2014
ClientSample ID:	BOW 2010-10	**DateReceived:**	2/27/2014 11:49:00 AM
COC:	WEB	**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 1704	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	03/14/2014 1704	SH
Polonium 210	<1	pCi/L		1	OTW01	03/17/2014 1544	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/17/2014 1544	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1010	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	03/18/2014 1010	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 1127	MB
Thorium 230 Precision (±)	0.05	pCi/L			ACW10	03/24/2014 1127	MB
Thorium 229 Tracer (30-120)	94	%			ACW10	03/24/2014 1127	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-010
ClientSample ID: BOW 2010-11
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:20:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	148	mg/L		5	SM 2320B	03/12/2014 1512	KV
Alkalinity, Bicarbonate as HCO3	178	mg/L		1	SM 2320B	03/12/2014 1512	KV
Alkalinity, Carbonate as CO3	1	mg/L		1	SM 2320B	03/12/2014 1512	KV
Chloride	5	mg/L		1	EPA 300.0	03/10/2014 2039	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	03/01/2014 845	KV
Nitrogen, Nitrate+Nitrite (as N)	1.5	mg/L		0.1	EPA 353.2	03/03/2014 1527	RH
Sulfate	11	mg/L		1	EPA 300.0	03/10/2014 2039	AMB
Calcium	35	mg/L		1	EPA 200.7	03/03/2014 1637	DG
Magnesium	7	mg/L		1	EPA 200.7	03/03/2014 1637	DG
Potassium	5	mg/L		1	EPA 200.7	03/12/2014 1258	DG
Sodium	20	mg/L		1	EPA 200.7	03/12/2014 1258	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1024	RH
Silica as SiO2	61	mg/L		1	EPA 200.7	03/03/2014 1637	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	03/01/2014 845	KV
Electrical Conductivity	330	µmhos/cm		1	SM 2510B	03/01/2014 845	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	03/03/2014 1517	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	3.31	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.45	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	2.09	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	03/25/2014 1153	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-010
ClientSample ID: BOW 2010-11
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:20:00 AM
DateReceived: 2/28/2014 11:04:00 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	03/03/2014 1637	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	02/28/2014 2333	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2333	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1637	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2333	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1637	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2333	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1637	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2333	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1637	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1032	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2333	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1637	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2333	MS
Uranium	0.0050	mg/L		0.0003	EPA 200.8	02/28/2014 2333	MS
Uranium Activity	3.4	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2333	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	03/03/2014 1637	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/07/2014 047	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1645	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1645	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.05	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1634	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	03/20/2014 1634	MB
Thorium 229 Tracer (30-120)	95	%			ACW10	03/20/2014 1634	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-010
ClientSample ID: BOW 2010-11
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:20:00 AM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/24/2014 1511	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/24/2014 1511	MB
Polonium 210	<1	pCi/L		1	OTW01	03/24/2014 1301	MB
Polonium 210 (Suspended) Precision (±)	0.3	pCi/L			OTW01	03/24/2014 1301	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.02	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/25/2014 801	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/25/2014 801	MB
Thorium 229 Tracer (30-120)	91	%			ACW10	03/25/2014 801	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	252	mg/L		5	SM 2320B	06/19/2014 1859	BT
Alkalinity, Bicarbonate as HCO3	<1	mg/L		1	SM 2320B	06/19/2014 1859	BT
Alkalinity, Carbonate as CO3	64	mg/L		1	SM 2320B	06/19/2014 1859	BT
Chloride	326	mg/L		1	EPA 300.0	06/25/2014 1356	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/19/2014 1859	BT
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	06/20/2014 1359	CAW
Sulfate	43	mg/L		1	EPA 300.0	06/25/2014 307	AMB
Calcium	23	mg/L		1	EPA 200.7	06/25/2014 1240	DG
Magnesium	<1	mg/L		1	EPA 200.7	06/25/2014 1240	DG
Potassium	27	mg/L		1	EPA 200.7	06/25/2014 1240	DG
Sodium	326	mg/L		1	EPA 200.7	06/25/2014 1240	DG
Nitrogen, Ammonia (As N)	0.11	mg/L		0.05	EPA 350.1	06/24/2014 901	RH
Silica as SiO2	178	mg/L		1	EPA 200.7	06/20/2014 1316	DG
General Parameters							
pH	10.8	s.u.		0.1	SM 4500 H B	06/19/2014 1859	BT
Electrical Conductivity	1650	µmhos/cm		1	SM 2510B	06/19/2014 1859	BT
Total Dissolved Solids (180)	1070	mg/L		10	SM 2540	06/19/2014 1511	BM
Nitrogen, Nitrite (as N)	0.3	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	16.01	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	15.22	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	2.53	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	1080	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.99	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1406337
Lab ID:	S1406337-008	**CollectionDate:**	6/16/2014
ClientSample ID:	BOW 2010-1	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**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
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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	224	mg/L		5	SM 2320B	06/19/2014 1912	BT
Alkalinity, Bicarbonate as HCO3	<1	mg/L		1	SM 2320B	06/19/2014 1912	BT
Alkalinity, Carbonate as CO3	117	mg/L		1	SM 2320B	06/19/2014 1912	BT
Chloride	182	mg/L		1	EPA 300.0	06/25/2014 319	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/19/2014 1912	BT
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	06/20/2014 1400	CAW
Sulfate	34	mg/L		1	EPA 300.0	06/25/2014 319	AMB
Calcium	12	mg/L		1	EPA 200.7	06/25/2014 1242	DG
Magnesium	<1	mg/L		1	EPA 200.7	06/25/2014 1242	DG
Potassium	23	mg/L		1	EPA 200.7	06/25/2014 1242	DG
Sodium	211	mg/L		1	EPA 200.7	06/25/2014 1242	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 902	RH
Silica as SiO2	108	mg/L		1	EPA 200.7	06/20/2014 1318	DG
General Parameters							
pH	10.3	s.u.		0.1	SM 4500 H B	06/19/2014 1912	BT
Electrical Conductivity	1060	µmhos/cm		1	SM 2510B	06/19/2014 1912	BT
Total Dissolved Solids (180)	700	mg/L		10	SM 2540	06/19/2014 1512	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	10.35	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	10.43	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	0.42	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	710	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.99	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1406337
Lab ID:	S1406337-009	**CollectionDate:**	6/16/2014
ClientSample ID:	BOW 2010-2	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**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 2059	DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	06/23/2014 220	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 220	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2059	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 220	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2059	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 220	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2059	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 220	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2059	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1334	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 220	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2059	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 220	MS
Uranium	0.0018	mg/L		0.0003	EPA 200.8	06/23/2014 220	MS
Uranium Activity	1.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 220	MS
Zinc	0.23	mg/L		0.01	EPA 200.7	06/19/2014 2059	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 2336	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/09/2014 1302	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1116	MB
Polonium 210 (Dissolved) Precision (±)	0.1	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)	87	%			ACW10	07/03/2014 1336	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1406337
Lab ID:	S1406337-009	**CollectionDate:**	6/16/2014
ClientSample ID:	BOW 2010-2	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	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 (±)	0.1	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 (±)	0.02	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	95	%			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
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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	117	mg/L		5	SM 2320B	06/19/2014 1924	BT
Alkalinity, Bicarbonate as HCO3	104	mg/L		1	SM 2320B	06/19/2014 1924	BT
Alkalinity, Carbonate as CO3	19	mg/L		1	SM 2320B	06/19/2014 1924	BT
Chloride	23	mg/L		1	EPA 300.0	06/22/2014 1816	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/19/2014 1924	BT
Nitrogen, Nitrate+Nitrite (as N)	0.4	mg/L		0.1	EPA 353.2	06/20/2014 1401	CAW
Sulfate	52	mg/L		1	EPA 300.0	06/22/2014 1816	AMB
Calcium	4	mg/L		1	EPA 200.7	06/19/2014 2101	DG
Magnesium	<1	mg/L		1	EPA 200.7	06/19/2014 2101	DG
Potassium	9	mg/L		1	EPA 200.7	06/19/2014 2101	DG
Sodium	91	mg/L		1	EPA 200.7	06/19/2014 2101	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 903	RH
Silica as SiO2	77	mg/L		1	EPA 200.7	06/19/2014 2101	DG
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	06/19/2014 1924	BT
Electrical Conductivity	450	µmhos/cm		1	SM 2510B	06/19/2014 1924	BT
Total Dissolved Solids (180)	340	mg/L		10	SM 2540	06/19/2014 1513	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	4.38	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	4.10	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (±5%)	3.23	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	330	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.03	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2101	DG
Arsenic	0.012	mg/L		0.001	EPA 200.8	06/23/2014 225	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 225	MS
Boron	0.1	mg/L		0.1	EPA 200.7	06/19/2014 2101	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 225	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2101	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 225	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2101	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 225	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2101	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1340	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 225	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2101	DG
Selenium	0.005	mg/L		0.001	EPA 200.8	06/23/2014 225	MS
Uranium	0.0032	mg/L		0.0003	EPA 200.8	06/23/2014 225	MS
Uranium Activity	2.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 225	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2101	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 2341	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.4	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 (±)	0.03	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)	81	%			ACW10	07/03/2014 1336	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1406337
Lab ID:	S1406337-010	**CollectionDate:**	6/16/2014
ClientSample ID:	BOW 2010-3	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	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 (±)	0.02	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	95	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	8/8/2014 S1406337001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1406337
Lab ID:	S1406337-003	**CollectionDate:**	6/16/2014
ClientSample ID:	BOW 2010-4A	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	58	mg/L		5	SM 2320B	06/19/2014 1727	BT
Alkalinity, Bicarbonate as HCO3	70	mg/L		1	SM 2320B	06/19/2014 1727	BT
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	06/19/2014 1727	BT
Chloride	300	mg/L		1	EPA 300.0	06/22/2014 1524	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/19/2014 1727	BT
Nitrogen, Nitrate+Nitrite (as N)	<0.1	mg/L		0.1	EPA 353.2	06/20/2014 1346	CAW
Sulfate	39	mg/L		1	EPA 300.0	06/22/2014 1524	AMB
Calcium	25	mg/L		1	EPA 200.7	06/19/2014 2032	DG
Magnesium	2	mg/L		1	EPA 200.7	06/19/2014 2032	DG
Potassium	18	mg/L		1	EPA 200.7	06/19/2014 2032	DG
Sodium	188	mg/L		1	EPA 200.7	06/19/2014 2032	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 850	RH
Silica as SiO2	39	mg/L		1	EPA 200.7	06/19/2014 2032	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/19/2014 1727	BT
Electrical Conductivity	1110	µmhos/cm		1	SM 2510B	06/19/2014 1727	BT
Total Dissolved Solids (180)	630	mg/L		10	SM 2540	06/19/2014 1506	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	10.03	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	10.44	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	2.03	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	650	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.97	dec. %		0.01	Calculation	07/28/2014 1550	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-003
ClientSample ID: BOW 2010-4A
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 2032	DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	06/23/2014 136	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 136	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2032	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 136	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2032	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 136	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2032	DG
Lead	0.003	mg/L		0.001	EPA 200.8	06/23/2014 136	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2032	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1301	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 136	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2032	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	06/23/2014 136	MS
Uranium	0.0017	mg/L		0.0003	EPA 200.8	06/23/2014 136	MS
Uranium Activity	1.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 136	MS
Zinc	1.35	mg/L		0.01	EPA 200.7	06/19/2014 2032	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1817	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1038	MB
Lead 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/09/2014 1038	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1002	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	07/10/2014 1002	MB
Radium 226	0.5	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 902	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	07/03/2014 902	MB
Thorium 229 Tracer (30-120)	79	%			ACW10	07/03/2014 902	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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	**WorkOrder:**	S1406337
Lab ID:	S1406337-003	**CollectionDate:**	6/16/2014
ClientSample ID:	BOW 2010-4A	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	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 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	94	%			ACW10	07/08/2014 811	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	8/8/2014
		Report ID	S1406386001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1406386
Lab ID:	S1406386-006	**CollectionDate:**	6/17/2014 10:56:00 AM
ClientSample ID:	BOW 2010-5	**DateReceived:**	6/19/2014 11:30:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	148	mg/L		5	SM 2320B	06/20/2014 2049	BT
Alkalinity, Bicarbonate as HCO3	177	mg/L		1	SM 2320B	06/20/2014 2049	BT
Alkalinity, Carbonate as CO3	2	mg/L		1	SM 2320B	06/20/2014 2049	BT
Chloride	4	mg/L		1	EPA 300.0	06/26/2014 306	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/20/2014 2049	BT
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	06/24/2014 1352	RH
Sulfate	7	mg/L		1	EPA 300.0	06/26/2014 306	AMB
Calcium	28	mg/L		1	EPA 200.7	06/20/2014 1556	DG
Magnesium	7	mg/L		1	EPA 200.7	06/20/2014 1556	DG
Potassium	5	mg/L		1	EPA 200.7	06/20/2014 1556	DG
Sodium	24	mg/L		1	EPA 200.7	06/20/2014 1556	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 1037	RH
Silica as SiO2	69	mg/L		1	EPA 200.7	06/20/2014 1556	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/20/2014 2049	BT
Electrical Conductivity	299	µmhos/cm		1	SM 2510B	06/20/2014 2049	BT
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	06/20/2014 1118	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.10	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Anion Sum	3.30	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Cation-Anion Balance (± 5%)	3.02	%		0.01	SM 1030E	06/27/2014 848	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	06/27/2014 848	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	07/28/2014 1348	WN

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	8/8/2014 S1406386001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1406386
Lab ID:	S1406386-006	**CollectionDate:**	6/17/2014 10:56:00 AM
ClientSample ID:	BOW 2010-5	**DateReceived:**	6/19/2014 11:30:00 AM
COC:	WEB	**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	06/20/2014 1556	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/23/2014 2352	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 2352	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1556	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 2352	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1556	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 2352	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1556	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 2352	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1556	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	07/01/2014 1025	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2352	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1556	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 2352	MS
Uranium	0.0070	mg/L		0.0003	EPA 200.8	06/23/2014 2352	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2352	MS
Zinc	0.13	mg/L		0.01	EPA 200.7	06/20/2014 1556	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1514	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/10/2014 1328	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	07/10/2014 1328	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1222	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	07/10/2014 1222	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/08/2014 943	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/08/2014 943	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	85	%			ACW10	07/07/2014 1616	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-006
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:56:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	07/21/2014 1209	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	07/21/2014 1209	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	83	%			ACW10	07/08/2014 811	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	7/28/2014 S1406413001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1406413
Lab ID:	S1406413-001	**CollectionDate:**	6/19/2014
ClientSample ID:	BOW 2010-6	**DateReceived:**	6/20/2014 10:53:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	129	mg/L		5	SM 2320B	06/21/2014 210	BT
Alkalinity, Bicarbonate as HCO3	148	mg/L		1	SM 2320B	06/21/2014 210	BT
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	06/21/2014 210	BT
Chloride	7	mg/L		1	EPA 300.0	06/27/2014 252	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/21/2014 210	BT
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	06/24/2014 1518	RH
Sulfate	10	mg/L		1	EPA 300.0	06/27/2014 252	AMB
Calcium	26	mg/L		1	EPA 200.7	06/23/2014 1428	DG
Magnesium	5	mg/L		1	EPA 200.7	06/23/2014 1428	DG
Potassium	5	mg/L		1	EPA 200.7	06/23/2014 1428	DG
Sodium	21	mg/L		1	EPA 200.7	06/23/2014 1428	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.05	EPA 350.1	06/24/2014 832	RH
Silica as SiO2	61	mg/L		1	EPA 200.7	06/23/2014 1428	DG
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	06/21/2014 210	BT
Electrical Conductivity	289	µmhos/cm		1	SM 2510B	06/21/2014 210	BT
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	06/20/2014 1504	BM
Nitrogen, Nitrite (as N)	ND	mg/L	L	0.1	EPA 353.2	06/19/2014 000	WN
Data Quality							
Cation Sum	2.79	meq/L		0.01	SM 1030E	06/27/2014 1653	JJ
Anion Sum	3.07	meq/L		0.01	SM 1030E	06/27/2014 1653	JJ
Cation-Anion Balance (± 5%)	4.79	%		0.01	SM 1030E	06/27/2014 1653	JJ
Solids, Total Dissolved (Calc)	220	mg/L		10	SM 1030E	06/27/2014 1653	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	07/28/2014 1258	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 7/28/2014
Report ID S1406413001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406413-001
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1406413
CollectionDate: 6/19/2014
DateReceived: 6/20/2014 10:53:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/23/2014 1428	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	06/24/2014 228	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/24/2014 228	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/23/2014 1428	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	06/24/2014 228	MS
Chromium	ND	mg/L		0.05	EPA 200.7	06/23/2014 1428	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/24/2014 228	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/23/2014 1428	DG
Lead	ND	mg/L		0.001	EPA 200.8	06/24/2014 228	MS
Manganese	ND	mg/L		0.01	EPA 200.7	06/23/2014 1428	DG
Mercury	ND	mg/L		0.001	EPA 245.1	07/01/2014 1121	CJB
Molybdenum	ND	mg/L		0.1	EPA 200.8	06/24/2014 228	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/23/2014 1428	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/24/2014 228	MS
Uranium	0.0047	mg/L		0.0003	EPA 200.8	06/24/2014 228	MS
Uranium Activity	3.2	pCi/L		0.2	Calculation	07/28/2014 1258	WN
Vanadium	ND	mg/L		0.1	EPA 200.8	06/24/2014 228	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	06/23/2014 1428	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/24/2014 1519	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	07/28/2014 1258	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	07/10/2014 1328	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	07/10/2014 1328	MB
Polonium 210	ND			1	OTW01	07/10/2014 1222	MB
Polonium 210 (Dissolved) Precision (±)	NA				OTW01	07/10/2014 1222	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	07/11/2014 1338	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	07/11/2014 1338	MB
Thorium 230	ND	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	90	%			ACW10	07/07/2014 1616	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 7/28/2014
Report ID S1406413001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406413-001
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1406413
CollectionDate: 6/19/2014
DateReceived: 6/20/2014 10:53:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	07/11/2014 1256	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	07/11/2014 1256	MB
Polonium 210	ND	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	ND	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	91	%			ACW10	07/08/2014 811	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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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: S1406337-011
ClientSample ID: BOW 2010-7
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	184	mg/L		5	SM 2320B	06/19/2014 1935	BT
Alkalinity, Bicarbonate as HCO3	205	mg/L		1	SM 2320B	06/19/2014 1935	BT
Alkalinity, Carbonate as CO3	10	mg/L		1	SM 2320B	06/19/2014 1935	BT
Chloride	12	mg/L		1	EPA 300.0	06/22/2014 1831	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/19/2014 1935	BT
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	06/20/2014 1402	CAW
Sulfate	43	mg/L		1	EPA 300.0	06/22/2014 1831	AMB
Calcium	8	mg/L		1	EPA 200.7	06/19/2014 2105	DG
Magnesium	<1	mg/L		1	EPA 200.7	06/19/2014 2105	DG
Potassium	10	mg/L		1	EPA 200.7	06/19/2014 2105	DG
Sodium	106	mg/L		1	EPA 200.7	06/19/2014 2105	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 904	RH
Silica as SiO2	73	mg/L		1	EPA 200.7	06/19/2014 2105	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/19/2014 1935	BT
Electrical Conductivity	502	µmhos/cm		1	SM 2510B	06/19/2014 1935	BT
Total Dissolved Solids (180)	370	mg/L		10	SM 2540	06/19/2014 1515	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	5.25	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	5.02	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	2.23	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	370	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-011
ClientSample ID: BOW 2010-7
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 2105	DG
Arsenic	0.028	mg/L		0.001	EPA 200.8	06/23/2014 241	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 241	MS
Boron	0.1	mg/L		0.1	EPA 200.7	06/19/2014 2105	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 241	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2105	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 241	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2105	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 241	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2105	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1342	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 241	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2105	DG
Selenium	0.197	mg/L		0.001	EPA 200.8	06/23/2014 241	MS
Uranium	0.0048	mg/L		0.0003	EPA 200.8	06/23/2014 241	MS
Uranium Activity	3.3	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 241	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/19/2014 2105	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 2347	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	07/09/2014 1302	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1116	MB
Polonium 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	07/10/2014 1116	MB
Radium 226	0.4	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 (±)	0.02	pCi/L			ACW10	07/03/2014 1336	MB
Thorium 229 Tracer (30-120)	88	%			ACW10	07/03/2014 1336	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-011
ClientSample ID: BOW 2010-7
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	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 (±)	0.02	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	86	%			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, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-012
ClientSample ID: BOW 2010-8
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	172	mg/L		5	SM 2320B	06/19/2014 1947	BT
Alkalinity, Bicarbonate as HCO3	136	mg/L		1	SM 2320B	06/19/2014 1947	BT
Alkalinity, Carbonate as CO3	37	mg/L		1	SM 2320B	06/19/2014 1947	BT
Chloride	4	mg/L		1	EPA 300.0	06/22/2014 1845	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/19/2014 1947	BT
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	06/20/2014 1404	CAW
Sulfate	22	mg/L		1	EPA 300.0	06/22/2014 1845	AMB
Calcium	5	mg/L		1	EPA 200.7	06/19/2014 2119	DG
Magnesium	<1	mg/L		1	EPA 200.7	06/19/2014 2119	DG
Potassium	9	mg/L		1	EPA 200.7	06/19/2014 2119	DG
Sodium	87	mg/L		1	EPA 200.7	06/19/2014 2119	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 905	RH
Silica as SiO2	81	mg/L		1	EPA 200.7	06/19/2014 2119	DG
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	06/19/2014 1947	BT
Electrical Conductivity	396	µmhos/cm		1	SM 2510B	06/19/2014 1947	BT
Total Dissolved Solids (180)	320	mg/L		10	SM 2540	06/19/2014 1516	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	4.25	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	4.11	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	1.70	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	320	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-012
ClientSample ID: BOW 2010-8
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 2119	DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	06/23/2014 302	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 302	MS
Boron	0.1	mg/L		0.1	EPA 200.7	06/19/2014 2119	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 302	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2119	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 302	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2119	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 302	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2119	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1344	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 302	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2119	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 302	MS
Uranium	0.0043	mg/L		0.0003	EPA 200.8	06/23/2014 302	MS
Uranium Activity	2.9	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 302	MS
Zinc	0.05	mg/L		0.01	EPA 200.7	06/19/2014 2119	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 2352	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	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 (±)	0.03	pCi/L			SM 7500 Ra-B	07/15/2014 1413	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 833	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	07/07/2014 833	MB
Thorium 229 Tracer (30-120)	92	%			ACW10	07/07/2014 833	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-012
ClientSample ID: BOW 2010-8
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	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 (±)	0.02	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	87	%			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
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

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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: S1406337-013
ClientSample ID: BOW 2010-9
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	166	mg/L		5	SM 2320B	06/19/2014 2000	BT
Alkalinity, Bicarbonate as HCO3	196	mg/L		1	SM 2320B	06/19/2014 2000	BT
Alkalinity, Carbonate as CO3	3	mg/L		1	SM 2320B	06/19/2014 2000	BT
Chloride	5	mg/L		1	EPA 300.0	06/22/2014 1859	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/19/2014 2000	BT
Nitrogen, Nitrate+Nitrite (as N)	1.2	mg/L		0.1	EPA 353.2	06/20/2014 1405	CAW
Sulfate	7	mg/L		1	EPA 300.0	06/22/2014 1859	AMB
Calcium	35	mg/L		1	EPA 200.7	06/19/2014 2121	DG
Magnesium	9	mg/L		1	EPA 200.7	06/19/2014 2121	DG
Potassium	4	mg/L		1	EPA 200.7	06/19/2014 2121	DG
Sodium	20	mg/L		1	EPA 200.7	06/19/2014 2121	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 906	RH
Silica as SiO2	71	mg/L		1	EPA 200.7	06/19/2014 2121	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	06/19/2014 2000	BT
Electrical Conductivity	323	µmhos/cm		1	SM 2510B	06/19/2014 2000	BT
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	06/19/2014 1517	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.48	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	3.70	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	3.03	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-013
ClientSample ID: BOW 2010-9
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 2121	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/23/2014 319	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 319	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2121	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 319	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2121	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 319	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2121	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 319	MS
Manganese	0.01	mg/L		0.01	EPA 200.7	06/19/2014 2121	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1346	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 319	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2121	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 319	MS
Uranium	0.0076	mg/L		0.0003	EPA 200.8	06/23/2014 319	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 319	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2121	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 2358	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	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	07/11/2014 858	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/11/2014 858	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 833	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	07/07/2014 833	MB
Thorium 229 Tracer (30-120)	82	%			ACW10	07/07/2014 833	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-013
ClientSample ID: BOW 2010-9
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	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 (±)	0.1	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 (±)	0.03	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	92	%			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, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-014
ClientSample ID: BOW 2010-10
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	
Anions/Cations							
Alkalinity, Total (As CaCO3)	153	mg/L		5	SM 2320B	06/19/2014 2012	BT
Alkalinity, Bicarbonate as HCO3	185	mg/L		1	SM 2320B	06/19/2014 2012	BT
Alkalinity, Carbonate as CO3	1	mg/L		1	SM 2320B	06/19/2014 2012	BT
Chloride	6	mg/L		1	EPA 300.0	06/22/2014 1914	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/19/2014 2012	BT
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	06/20/2014 1406	CAW
Sulfate	7	mg/L		1	EPA 300.0	06/22/2014 1914	AMB
Calcium	32	mg/L		1	EPA 200.7	06/19/2014 2123	DG
Magnesium	10	mg/L		1	EPA 200.7	06/19/2014 2123	DG
Potassium	4	mg/L		1	EPA 200.7	06/19/2014 2123	DG
Sodium	22	mg/L		1	EPA 200.7	06/19/2014 2123	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 907	RH
Silica as SiO2	72	mg/L		1	EPA 200.7	06/19/2014 2123	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H+ B	06/19/2014 2012	BT
Electrical Conductivity	328	µmhos/cm		1	SM 2510B	06/19/2014 2012	BT
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	06/19/2014 1518	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.48	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Anion Sum	3.52	meq/L		0.01	SM 1030E	06/26/2014 905	JJ
Cation-Anion Balance (± 5%)	0.60	%		0.01	SM 1030E	06/26/2014 905	JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	06/26/2014 905	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	07/28/2014 1550	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1406337-014
ClientSample ID: BOW 2010-10
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 2123	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/23/2014 324	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 324	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2123	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 324	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2123	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 324	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2123	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 324	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2123	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1348	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 324	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2123	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	06/23/2014 324	MS
Uranium	0.0073	mg/L		0.0003	EPA 200.8	06/23/2014 324	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 324	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2123	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/25/2014 003	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	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	07/11/2014 858	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/11/2014 858	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 833	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	07/07/2014 833	MB
Thorium 229 Tracer (30-120)	81	%			ACW10	07/07/2014 833	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1406337
Lab ID:	S1406337-014	**CollectionDate:**	6/16/2014
ClientSample ID:	BOW 2010-10	**DateReceived:**	6/18/2014 10:42:00 AM
COC:	WEB	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.6	pCi/L		1	OTW01	07/21/2014 1209	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	07/21/2014 1209	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	07/11/2014 1637	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 (±)	0.03	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	93	%			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, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-003
ClientSample ID: BOW 2010-11
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:10:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	147	mg/L		5	SM 2320B	06/20/2014 1953	BT
Alkalinity, Bicarbonate as HCO3	177	mg/L		1	SM 2320B	06/20/2014 1953	BT
Alkalinity, Carbonate as CO3	1	mg/L		1	SM 2320B	06/20/2014 1953	BT
Chloride	4	mg/L		1	EPA 300.0	06/26/2014 224	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/20/2014 1953	BT
Nitrogen, Nitrate+Nitrite (as N)	1.5	mg/L		0.1	EPA 353.2	06/24/2014 1342	RH
Sulfate	11	mg/L		1	EPA 300.0	06/26/2014 224	AMB
Calcium	35	mg/L		1	EPA 200.7	06/20/2014 1547	DG
Magnesium	7	mg/L		1	EPA 200.7	06/20/2014 1547	DG
Potassium	5	mg/L		1	EPA 200.7	06/20/2014 1547	DG
Sodium	18	mg/L		1	EPA 200.7	06/20/2014 1547	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	06/24/2014 1028	RH
Silica as SiO2	61	mg/L		1	EPA 200.7	06/20/2014 1547	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	06/20/2014 1953	BT
Electrical Conductivity	309	µmhos/cm		1	SM 2510B	06/20/2014 1953	BT
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	06/20/2014 1115	BM
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	06/17/2014 000	WN
Data Quality							
Cation Sum	3.21	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Anion Sum	3.41	meq/L		0.01	SM 1030E	06/27/2014 848	JJ
Cation-Anion Balance (± 5%)	3.00	%		0.01	SM 1030E	06/27/2014 848	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	06/27/2014 848	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	07/28/2014 1348	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-003
ClientSample ID: BOW 2010-11
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:10:00 AM
DateReceived: 6/19/2014 11:30:00 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	06/20/2014 1547	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	06/23/2014 2325	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 2325	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1547	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 2325	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1547	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 2325	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1547	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 2325	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1547	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	07/01/2014 1020	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2325	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1547	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	06/23/2014 2325	MS
Uranium	0.0051	mg/L		0.0003	EPA 200.8	06/23/2014 2325	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2325	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1547	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1457	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.3	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	07/08/2014 943	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/08/2014 943	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	0.05	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	82	%			ACW10	07/07/2014 1616	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-003
ClientSample ID: BOW 2010-11
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:10:00 AM
DateReceived: 6/19/2014 11:30:00 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	07/11/2014 1256	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	07/11/2014 1256	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	92	%			ACW10	07/08/2014 811	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1409373
Lab ID:	S1409373-005	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-1	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	236	mg/L		5	SM 2320B	09/19/2014 1910	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		1	SM 2320B	09/19/2014 1910	BT
Alkalinity, Carbonate as CO3	62	mg/L		1	SM 2320B	09/19/2014 1910	BT
Chloride	326	mg/L		1	EPA 300.0	09/23/2014 359	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/19/2014 1910	BT
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	09/25/2014 1751	AMB
Sulfate	37	mg/L		1	EPA 300.0	09/23/2014 359	AB
Calcium	19	mg/L		1	EPA 200.7	09/19/2014 1535	DG
Magnesium	ND	mg/L		1	EPA 200.7	09/19/2014 1535	DG
Potassium	24	mg/L		1	EPA 200.7	09/19/2014 1535	DG
Sodium	288	mg/L		1	EPA 200.7	09/19/2014 1535	DG
Nitrogen, Ammonia (As N)	0.35	mg/L		0.05	EPA 350.1	09/26/2014 910	LJK
Silica as SiO2	174	mg/L		1	EPA 200.7	09/19/2014 1535	DG
General Parameters							
pH	10.7	s.u.		0.1	SM 4500 H B	09/19/2014 1910	BT
Electrical Conductivity	1520	µmhos/cm		1	SM 2510B	09/19/2014 1910	BT
Total Dissolved Solids (180)	1030	mg/L		10	SM 2540	09/19/2014 1128	IR
Nitrogen, Nitrite (as N)	0.4	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	14.10	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Anion Sum	14.77	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Cation-Anion Balance (± 5%)	2.33	%		0.01	SM 1030E	09/30/2014 1121	JJ
Solids, Total Dissolved (Calc)	1010	mg/L		10	SM 1030E	09/30/2014 1121	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.02	dec. %		0.01	Calculation	10/13/2014 1201	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.05	EPA 200.7	09/19/2014 1535	DG
Arsenic	0.009	mg/L		0.001	EPA 200.8	09/19/2014 349	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/19/2014 349	MS
Boron	0.1	mg/L		0.1	EPA 200.7	09/19/2014 1535	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	09/19/2014 349	MS
Chromium	ND	mg/L		0.05	EPA 200.7	09/19/2014 1535	DG
Copper	0.02	mg/L		0.01	EPA 200.8	09/19/2014 349	MS
Iron	ND	mg/L		0.05	EPA 200.7	09/19/2014 1535	DG
Lead	0.001	mg/L		0.001	EPA 200.8	09/19/2014 349	MS
Manganese	ND	mg/L		0.01	EPA 200.7	09/19/2014 1535	DG
Mercury	ND	mg/L		0.001	EPA 245.1	09/24/2014 1055	BJ
Molybdenum	ND	mg/L		0.1	EPA 200.8	09/19/2014 349	MS
Nickel	ND	mg/L		0.05	EPA 200.7	09/19/2014 1535	DG
Selenium	0.012	mg/L		0.001	EPA 200.8	09/19/2014 349	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	09/19/2014 349	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/13/2014 1201	WN
Vanadium	ND	mg/L		0.1	EPA 200.8	09/19/2014 349	MS
Zinc	0.10	mg/L		0.01	EPA 200.7	09/19/2014 1535	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	10/08/2014 1847	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)	80	%			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 Spike Recovery outside accepted recovery limits
- X Matrix Effect

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	11/17/2014 S1409373001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1409373
Lab ID:	S1409373-005	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-1	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/28/2014 1039	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	10/28/2014 1039	MB
Polonium 210	ND	pCi/L		1	OTW01	10/29/2014 934	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	10/29/2014 934	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/20/2014 1348	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/20/2014 1348	MB
Thorium 230	ND	pCi/L		0.2	ACW10	10/24/2014 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/24/2014 000	MB
Thorium 229 Tracer (30-120)	73	%			ACW10	10/24/2014 000	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	11/17/2014 S1409373001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1409373
Lab ID:	S1409373-006	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-2	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	201	mg/L		5	SM 2320B	09/19/2014 1923	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		1	SM 2320B	09/19/2014 1923	BT
Alkalinity, Carbonate as CO3	116	mg/L		1	SM 2320B	09/19/2014 1923	BT
Chloride	136	mg/L		1	EPA 300.0	09/23/2014 414	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/19/2014 1923	BT
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	09/25/2014 1753	AMB
Sulfate	28	mg/L		1	EPA 300.0	09/23/2014 414	AB
Calcium	8	mg/L		1	EPA 200.7	09/19/2014 1537	DG
Magnesium	ND	mg/L		1	EPA 200.7	09/19/2014 1537	DG
Potassium	18	mg/L		1	EPA 200.7	09/19/2014 1537	DG
Sodium	168	mg/L		1	EPA 200.7	09/19/2014 1537	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.05	EPA 350.1	09/26/2014 911	LJK
Silica as SiO2	100	mg/L		1	EPA 200.7	09/19/2014 1537	DG
General Parameters							
pH	10.2	s.u.		0.1	SM 4500 H B	09/19/2014 1923	BT
Electrical Conductivity	891	µmhos/cm		1	SM 2510B	09/19/2014 1923	BT
Total Dissolved Solids (180)	620	mg/L		10	SM 2540	09/19/2014 1129	IR
Nitrogen, Nitrite (as N)	ND	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	8.14	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Anion Sum	8.56	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Cation-Anion Balance (± 5%)	2.53	%		0.01	SM 1030E	09/30/2014 1121	JJ
Solids, Total Dissolved (Calc)	580	mg/L		10	SM 1030E	09/30/2014 1121	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.07	dec. %		0.01	Calculation	10/13/2014 1201	WN

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1409373
Lab ID:	S1409373-006	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-2	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**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	10/08/2014 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 Spike Recovery outside accepted recovery limits
- X Matrix Effect

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/28/2014 1039	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	10/28/2014 1039	MB
Polonium 210	ND	pCi/L		1	OTW01	10/29/2014 934	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	10/29/2014 934	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/20/2014 1348	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/20/2014 1348	MB
Thorium 230	0.4	pCi/L		0.2	ACW10	11/03/2014 1010	MB
Thorium 230 Precision (±)	0.2	pCi/L			ACW10	11/03/2014 1010	MB
Thorium 229 Tracer (30-120)	74	%			ACW10	11/03/2014 1010	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	123	mg/L		5	SM 2320B	09/19/2014 1933	BT
Alkalinity, Bicarbonate as HCO3	112	mg/L		1	SM 2320B	09/19/2014 1933	BT
Alkalinity, Carbonate as CO3	19	mg/L		1	SM 2320B	09/19/2014 1933	BT
Chloride	23	mg/L		1	EPA 300.0	09/23/2014 430	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/19/2014 1933	BT
Nitrogen, Nitrate+Nitrite (as N)	0.5	mg/L		0.1	EPA 353.2	09/25/2014 1754	AMB
Sulfate	54	mg/L		1	EPA 300.0	09/23/2014 430	AB
Calcium	4	mg/L		1	EPA 200.7	09/19/2014 1539	DG
Magnesium	ND	mg/L		1	EPA 200.7	09/19/2014 1539	DG
Potassium	8	mg/L		1	EPA 200.7	09/19/2014 1539	DG
Sodium	84	mg/L		1	EPA 200.7	09/19/2014 1539	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.05	EPA 350.1	09/24/2014 1635	AMB
Silica as SiO2	77	mg/L		1	EPA 200.7	09/19/2014 1539	DG
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	09/19/2014 1933	BT
Electrical Conductivity	468	µmhos/cm		1	SM 2510B	09/19/2014 1933	BT
Total Dissolved Solids (180)	360	mg/L		10	SM 2540	09/19/2014 1130	IR
Nitrogen, Nitrite (as N)	ND	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	4.06	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Anion Sum	4.30	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Cation-Anion Balance (± 5%)	2.86	%		0.01	SM 1030E	09/30/2014 1121	JJ
Solids, Total Dissolved (Calc)	330	mg/L		10	SM 1030E	09/30/2014 1121	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.09	dec. %		0.01	Calculation	10/13/2014 1201	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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

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

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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	**WorkOrder:**	S1409373
Lab ID:	S1409373-007	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-3	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/28/2014 1039	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	10/28/2014 1039	MB
Polonium 210	ND	pCi/L		1	OTW01	10/29/2014 934	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	10/29/2014 934	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/20/2014 1348	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/20/2014 1348	MB
Thorium 230	ND	pCi/L		0.2	ACW10	10/24/2014 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/24/2014 000	MB
Thorium 229 Tracer (30-120)	77	%			ACW10	10/24/2014 000	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-007
ClientSample ID: BOW-2010-4A
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	63	mg/L		5	SM 2320B	09/22/2014 2253	BT
Alkalinity, Bicarbonate as HCO3	73	mg/L		1	SM 2320B	09/22/2014 2253	BT
Alkalinity, Carbonate as CO3	2	mg/L		1	SM 2320B	09/22/2014 2253	BT
Chloride	267	mg/L		1	EPA 300.0	09/24/2014 1037	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/22/2014 2253	BT
Nitrogen, Nitrate+Nitrite (as N)	<0.1	mg/L		0.1	EPA 353.2	09/25/2014 1811	AMB
Sulfate	41	mg/L		1	EPA 300.0	09/23/2014 2114	AB
Calcium	22	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Magnesium	2	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Potassium	17	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Sodium	177	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1644	AMB
Silica as SiO2	37	mg/L		1	EPA 200.7	09/22/2014 1442	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2253	BT
Electrical Conductivity	1070	µmhos/cm		1	SM 2510B	09/22/2014 2253	BT
Total Dissolved Solids (180)	610	mg/L		10	SM 2540	09/19/2014 1846	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	9.37	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	9.66	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	1.49	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	600	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.02	dec. %		0.01	Calculation	10/16/2014 922	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-007
ClientSample ID: BOW-2010-4A
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1442	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/20/2014 538	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 538	MS
Boron	0.1	mg/L		0.1	EPA 200.7	09/22/2014 1442	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 538	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1442	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 538	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1442	DG
Lead	0.002	mg/L		0.001	EPA 200.8	09/20/2014 538	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1442	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1027	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 538	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1442	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	09/20/2014 538	MS
Uranium	0.0016	mg/L		0.0003	EPA 200.8	09/20/2014 538	MS
Uranium Activity	1.1	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 538	MS
Zinc	0.63	mg/L		0.01	EPA 200.7	09/22/2014 1442	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 1959	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/28/2014 1243	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/28/2014 1243	MB
Polonium 210	<1	pCi/L		1	OTW01	10/30/2014 1652	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	10/30/2014 1652	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	79	%			ACW10	10/22/2014 1313	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	11/17/2014
		Report ID	S1409415001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1409415
Lab ID:	S1409415-007	**CollectionDate:**	9/17/2014
ClientSample ID:	BOW-2010-4A	**DateReceived:**	9/19/2014 1:05:00 PM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	11/03/2014 000	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	11/03/2014 000	MB
Polonium 210	<1	pCi/L		1	OTW01	11/05/2014 000	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	11/05/2014 000	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	0.05	pCi/L			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	41	%			ACW10	10/30/2014 1002	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	11/17/2014
		Report ID	S1409415001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1409415
Lab ID:	S1409415-008	**CollectionDate:**	9/17/2014
ClientSample ID:	BOW-2010-5	**DateReceived:**	9/19/2014 1:05:00 PM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	147	mg/L		5	SM 2320B	09/22/2014 2305	BT
Alkalinity, Bicarbonate as HCO3	169	mg/L		1	SM 2320B	09/22/2014 2305	BT
Alkalinity, Carbonate as CO3	5	mg/L		1	SM 2320B	09/22/2014 2305	BT
Chloride	2	mg/L		1	EPA 300.0	09/23/2014 2125	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/22/2014 2305	BT
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	09/25/2014 1812	AMB
Sulfate	7	mg/L		1	EPA 300.0	09/23/2014 2125	AB
Calcium	28	mg/L		1	EPA 200.7	09/22/2014 1444	DG
Magnesium	7	mg/L		1	EPA 200.7	09/22/2014 1444	DG
Potassium	4	mg/L		1	EPA 200.7	09/22/2014 1444	DG
Sodium	22	mg/L		1	EPA 200.7	09/22/2014 1444	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1651	AMB
Silica as SiO2	67	mg/L		1	EPA 200.7	09/22/2014 1444	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2305	BT
Electrical Conductivity	315	µmhos/cm		1	SM 2510B	09/22/2014 2305	BT
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	09/19/2014 1847	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.08	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.25	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	2.75	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.09	dec. %		0.01	Calculation	10/16/2014 922	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-008
ClientSample ID: BOW-2010-5
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1444	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/20/2014 543	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 543	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1444	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 543	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1444	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 543	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1444	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 543	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1444	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1036	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 543	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1444	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 543	MS
Uranium	0.0070	mg/L		0.0003	EPA 200.8	09/20/2014 543	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 543	MS
Zinc	0.12	mg/L		0.01	EPA 200.7	09/22/2014 1444	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 2004	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	1.1	pCi/L		1	OTW01	10/28/2014 1453	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/28/2014 1453	MB
Polonium 210	4.0	pCi/L		1	OTW01	10/30/2014 1654	MB
Polonium 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	10/30/2014 1654	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	95	%			ACW10	10/22/2014 1313	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	11/17/2014
		Report ID	S1409415001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1409415
Lab ID:	S1409415-008	**CollectionDate:**	9/17/2014
ClientSample ID:	BOW-2010-5	**DateReceived:**	9/19/2014 1:05:00 PM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	11/03/2014 000	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	11/03/2014 000	MB
Polonium 210	<1	pCi/L		1	OTW01	11/05/2014 000	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	11/05/2014 000	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/30/2014 1002	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/30/2014 1002	MB
Thorium 229 Tracer (30-120)	61	%			ACW10	10/30/2014 1002	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-009
ClientSample ID: BOW-2010-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	140	mg/L		5	SM 2320B	09/22/2014 2338	BT
Alkalinity, Bicarbonate as HCO3	158	mg/L		1	SM 2320B	09/22/2014 2338	BT
Alkalinity, Carbonate as CO3	6	mg/L		1	SM 2320B	09/22/2014 2338	BT
Chloride	5	mg/L		1	EPA 300.0	09/23/2014 2136	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/22/2014 2338	BT
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	09/25/2014 1814	AMB
Sulfate	9	mg/L		1	EPA 300.0	09/23/2014 2136	AB
Calcium	30	mg/L		1	EPA 200.7	09/22/2014 1447	DG
Magnesium	6	mg/L		1	EPA 200.7	09/22/2014 1447	DG
Potassium	5	mg/L		1	EPA 200.7	09/22/2014 1447	DG
Sodium	20	mg/L		1	EPA 200.7	09/22/2014 1447	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1652	AMB
Silica as SiO2	61	mg/L		1	EPA 200.7	09/22/2014 1447	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2338	BT
Electrical Conductivity	312	µmhos/cm		1	SM 2510B	09/22/2014 2338	BT
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	09/19/2014 1848	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.02	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.22	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	3.05	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	10/16/2014 922	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-009
ClientSample ID: BOW-2010-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1447	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/20/2014 549	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 549	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1447	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 549	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1447	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 549	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1447	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 549	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1447	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1044	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 549	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1447	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 549	MS
Uranium	0.0052	mg/L		0.0003	EPA 200.8	09/20/2014 549	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 549	MS
Zinc	0.06	mg/L		0.01	EPA 200.7	09/22/2014 1447	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 2010	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/28/2014 1453	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/28/2014 1453	MB
Polonium 210	<1	pCi/L		1	OTW01	12/03/2014 956	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	12/03/2014 956	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	84	%			ACW10	10/22/2014 1313	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-009
ClientSample ID: BOW-2010-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	11/03/2014 000	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	11/03/2014 000	MB
Polonium 210	<1	pCi/L		1	OTW01	11/05/2014 000	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	11/05/2014 000	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/30/2014 1415	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/30/2014 1415	MB
Thorium 229 Tracer (30-120)	76	%			ACW10	10/30/2014 1415	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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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	**WorkOrder:**	S1409373
Lab ID:	S1409373-008	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-7	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	179	mg/L		5	SM 2320B	09/19/2014 1944	BT
Alkalinity, Bicarbonate as HCO3	199	mg/L		1	SM 2320B	09/19/2014 1944	BT
Alkalinity, Carbonate as CO3	9	mg/L		1	SM 2320B	09/19/2014 1944	BT
Chloride	14	mg/L		1	EPA 300.0	09/23/2014 445	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/19/2014 1944	BT
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	09/25/2014 1755	AMB
Sulfate	45	mg/L		1	EPA 300.0	09/23/2014 445	AB
Calcium	8	mg/L		1	EPA 200.7	09/19/2014 1541	DG
Magnesium	ND	mg/L		1	EPA 200.7	09/19/2014 1541	DG
Potassium	9	mg/L		1	EPA 200.7	09/19/2014 1541	DG
Sodium	97	mg/L		1	EPA 200.7	09/19/2014 1541	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.05	EPA 350.1	09/24/2014 1636	AMB
Silica as SiO2	71	mg/L		1	EPA 200.7	09/19/2014 1541	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	09/19/2014 1944	BT
Electrical Conductivity	529	µmhos/cm		1	SM 2510B	09/19/2014 1944	BT
Total Dissolved Solids (180)	390	mg/L		10	SM 2540	09/19/2014 1131	IR
Nitrogen, Nitrite (as N)	ND	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	4.83	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Anion Sum	4.99	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Cation-Anion Balance (±5%)	1.66	%		0.01	SM 1030E	09/30/2014 1121	JJ
Solids, Total Dissolved (Calc)	360	mg/L		10	SM 1030E	09/30/2014 1121	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	10/13/2014 1201	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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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: S1409373-008
ClientSample ID: BOW-2010-7
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 1541	DG
Arsenic	0.028	mg/L		0.001	EPA 200.8	09/19/2014 416	MS
Barium	ND	mg/L		0.1	EPA 200.8	09/19/2014 416	MS
Boron	0.1	mg/L		0.1	EPA 200.7	09/19/2014 1541	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	09/19/2014 416	MS
Chromium	ND	mg/L		0.05	EPA 200.7	09/19/2014 1541	DG
Copper	ND	mg/L		0.01	EPA 200.8	09/19/2014 416	MS
Iron	ND	mg/L		0.05	EPA 200.7	09/19/2014 1541	DG
Lead	ND	mg/L		0.001	EPA 200.8	09/19/2014 416	MS
Manganese	ND	mg/L		0.01	EPA 200.7	09/19/2014 1541	DG
Mercury	ND	mg/L		0.001	EPA 245.1	09/24/2014 1110	BJ
Molybdenum	ND	mg/L		0.1	EPA 200.8	09/19/2014 416	MS
Nickel	ND	mg/L		0.05	EPA 200.7	09/19/2014 1541	DG
Selenium	0.183	mg/L		0.001	EPA 200.8	09/19/2014 416	MS
Uranium	0.0049	mg/L		0.0003	EPA 200.8	09/19/2014 416	MS
Uranium Activity	3.3	pCi/L		0.2	Calculation	10/13/2014 1201	WN
Vanadium	ND	mg/L		0.1	EPA 200.8	09/19/2014 416	MS
Zinc	ND	mg/L		0.01	EPA 200.7	09/19/2014 1541	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	10/08/2014 1903	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	0.4	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)	78	%			ACW10	10/22/2014 857	MB

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

Qualifiers:

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- 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

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Your Environmental Monitoring Partner

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	**WorkOrder:**	S1409373
Lab ID:	S1409373-008	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-7	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	10/28/2014 1039	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	10/28/2014 1039	MB
Polonium 210	ND	pCi/L		1	OTW01	10/29/2014 934	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	10/29/2014 934	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/20/2014 1348	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/20/2014 1348	MB
Thorium 230	ND	pCi/L		0.2	ACW10	10/24/2014 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/24/2014 000	MB
Thorium 229 Tracer (30-120)	76	%			ACW10	10/24/2014 000	MB

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

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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	**WorkOrder:**	S1409373
Lab ID:	S1409373-009	**CollectionDate:**	9/16/2014
ClientSample ID:	BOW-2010-8	**DateReceived:**	9/18/2014 10:28:00 AM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	168	mg/L		5	SM 2320B	09/19/2014 2007	BT
Alkalinity, Bicarbonate as HCO3	145	mg/L		1	SM 2320B	09/19/2014 2007	BT
Alkalinity, Carbonate as CO3	30	mg/L		1	SM 2320B	09/19/2014 2007	BT
Chloride	4	mg/L		1	EPA 300.0	09/23/2014 500	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/19/2014 2007	BT
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	09/25/2014 1756	AMB
Sulfate	24	mg/L		1	EPA 300.0	09/23/2014 500	AB
Calcium	5	mg/L		1	EPA 200.7	09/19/2014 1546	DG
Magnesium	ND	mg/L		1	EPA 200.7	09/19/2014 1546	DG
Potassium	8	mg/L		1	EPA 200.7	09/19/2014 1546	DG
Sodium	79	mg/L		1	EPA 200.7	09/19/2014 1546	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.05	EPA 350.1	09/24/2014 1637	AMB
Silica as SiO2	81	mg/L		1	EPA 200.7	09/19/2014 1546	DG
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	09/19/2014 2007	BT
Electrical Conductivity	414	µmhos/cm		1	SM 2510B	09/19/2014 2007	BT
Total Dissolved Solids (180)	330	mg/L		10	SM 2540	09/19/2014 1132	IR
Nitrogen, Nitrite (as N)	ND	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.85	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Anion Sum	4.06	meq/L		0.01	SM 1030E	09/30/2014 1121	JJ
Cation-Anion Balance (±5%)	2.72	%		0.01	SM 1030E	09/30/2014 1121	JJ
Solids, Total Dissolved (Calc)	300	mg/L		10	SM 1030E	09/30/2014 1121	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.10	dec. %		0.01	Calculation	10/13/2014 1201	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

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: S1409373-009
ClientSample ID: BOW-2010-8
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 1546	DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	09/19/2014 437	MS
Barium	ND	mg/L		0.1	EPA 200.8	09/19/2014 437	MS
Boron	ND	mg/L		0.1	EPA 200.7	09/19/2014 1546	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	09/19/2014 437	MS
Chromium	ND	mg/L		0.05	EPA 200.7	09/19/2014 1546	DG
Copper	ND	mg/L		0.01	EPA 200.8	09/19/2014 437	MS
Iron	ND	mg/L		0.05	EPA 200.7	09/19/2014 1546	DG
Lead	ND	mg/L		0.001	EPA 200.8	09/19/2014 437	MS
Manganese	ND	mg/L		0.01	EPA 200.7	09/19/2014 1546	DG
Mercury	ND	mg/L		0.001	EPA 245.1	09/24/2014 1112	BJ
Molybdenum	ND	mg/L		0.1	EPA 200.8	09/19/2014 437	MS
Nickel	ND	mg/L		0.05	EPA 200.7	09/19/2014 1546	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/19/2014 437	MS
Uranium	0.0042	mg/L		0.0003	EPA 200.8	09/19/2014 437	MS
Uranium Activity	2.8	pCi/L		0.2	Calculation	10/13/2014 1201	WN
Vanadium	ND	mg/L		0.1	EPA 200.8	09/19/2014 437	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	09/19/2014 1546	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	10/08/2014 1920	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)	64	%			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 Spike Recovery outside accepted recovery limits
- X Matrix Effect

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

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: S1409373-009
ClientSample ID: BOW-2010-8
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	
Radionuclides - Suspended							
Lead 210	2.9	pCi/L		1	OTW01	11/13/2014 1628	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	11/13/2014 1628	MB
Polonium 210	ND	pCi/L		1	OTW01	11/12/2014 1529	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	11/12/2014 1529	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/20/2014 1348	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/20/2014 1348	MB
Thorium 230	ND	pCi/L		0.2	ACW10	10/24/2014 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/24/2014 000	MB
Thorium 229 Tracer (30-120)	80	%			ACW10	10/24/2014 000	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-010
ClientSample ID: BOW-9
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	154	mg/L		5	SM 2320B	09/22/2014 2350	BT
Alkalinity, Bicarbonate as HCO3	175	mg/L		1	SM 2320B	09/22/2014 2350	BT
Alkalinity, Carbonate as CO3	6	mg/L		1	SM 2320B	09/22/2014 2350	BT
Chloride	5	mg/L		1	EPA 300.0	09/23/2014 2256	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/22/2014 2350	BT
Nitrogen, Nitrate+Nitrite (as N)	1.1	mg/L		0.1	EPA 353.2	09/25/2014 1815	AMB
Sulfate	7	mg/L		1	EPA 300.0	09/23/2014 2256	AB
Calcium	32	mg/L		1	EPA 200.7	09/22/2014 1449	DG
Magnesium	9	mg/L		1	EPA 200.7	09/22/2014 1449	DG
Potassium	4	mg/L		1	EPA 200.7	09/22/2014 1449	DG
Sodium	19	mg/L		1	EPA 200.7	09/22/2014 1449	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1653	AMB
Silica as SiO2	66	mg/L		1	EPA 200.7	09/22/2014 1449	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2350	BT
Electrical Conductivity	337	µmhos/cm		1	SM 2510B	09/22/2014 2350	BT
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	09/19/2014 1849	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.22	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.46	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	3.65	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	10/16/2014 922	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-010
ClientSample ID: BOW-9
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1449	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/20/2014 554	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 554	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1449	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 554	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1449	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 554	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1449	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 554	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1449	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1046	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 554	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1449	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 554	MS
Uranium	0.0080	mg/L		0.0003	EPA 200.8	09/20/2014 554	MS
Uranium Activity	5.4	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 554	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	09/22/2014 1449	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 2015	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/28/2014 1453	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/28/2014 1453	MB
Polonium 210	<1	pCi/L		1	OTW01	10/30/2014 1654	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	10/30/2014 1654	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	89	%			ACW10	10/22/2014 1313	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-010
ClientSample ID: BOW-9
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	11/03/2014 000	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	11/03/2014 000	MB
Polonium 210	<1	pCi/L		1	OTW01	11/05/2014 000	MB
Polonium 210 (Suspended) Precision (±)	0.3	pCi/L			OTW01	11/05/2014 000	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	0.2	pCi/L		0.2	ACW10	10/30/2014 1415	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/30/2014 1415	MB
Thorium 229 Tracer (30-120)	87	%			ACW10	10/30/2014 1415	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-011
ClientSample ID: BOW-10
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	146	mg/L		5	SM 2320B	09/23/2014 002	BT
Alkalinity, Bicarbonate as HCO3	166	mg/L		1	SM 2320B	09/23/2014 002	BT
Alkalinity, Carbonate as CO3	6	mg/L		1	SM 2320B	09/23/2014 002	BT
Chloride	4	mg/L		1	EPA 300.0	09/23/2014 2307	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/23/2014 002	BT
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	09/25/2014 1823	AMB
Sulfate	11	mg/L		1	EPA 300.0	09/23/2014 2307	AB
Calcium	29	mg/L		1	EPA 200.7	09/22/2014 1451	DG
Magnesium	9	mg/L		1	EPA 200.7	09/22/2014 1451	DG
Potassium	3	mg/L		1	EPA 200.7	09/22/2014 1451	DG
Sodium	21	mg/L		1	EPA 200.7	09/22/2014 1451	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1654	AMB
Silica as SiO2	66	mg/L		1	EPA 200.7	09/22/2014 1451	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2014 002	BT
Electrical Conductivity	333	µmhos/cm		1	SM 2510B	09/23/2014 002	BT
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	09/19/2014 1850	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.20	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.39	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	2.80	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	10/16/2014 922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-011
ClientSample ID: BOW-10
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1451	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/20/2014 610	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 610	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1451	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 610	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1451	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 610	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1451	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 610	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1451	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1048	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 610	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1451	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 610	MS
Uranium	0.0071	mg/L		0.0003	EPA 200.8	09/20/2014 610	MS
Uranium Activity	4.8	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 610	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1451	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 2032	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/28/2014 1453	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/28/2014 1453	MB
Polonium 210	<1	pCi/L		1	OTW01	10/30/2014 1654	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	10/30/2014 1654	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/31/2014 837	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	10/31/2014 837	MB
Thorium 229 Tracer (30-120)	70	%			ACW10	10/31/2014 837	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	11/17/2014
		Report ID	S1409415001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1409415
Lab ID:	S1409415-011	**CollectionDate:**	9/17/2014
ClientSample ID:	BOW-10	**DateReceived:**	9/19/2014 1:05:00 PM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	11/03/2014 000	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	11/03/2014 000	MB
Polonium 210	<1	pCi/L		1	OTW01	11/05/2014 000	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	11/05/2014 000	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/22/2014 930	MB
Radium 226 (Suspended) Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/22/2014 930	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/30/2014 1415	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/30/2014 1415	MB
Thorium 229 Tracer (30-120)	51	%			ACW10	10/30/2014 1415	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-012
ClientSample ID: BOW-11
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	153	mg/L		5	SM 2320B	09/23/2014 013	BT
Alkalinity, Bicarbonate as HCO3	178	mg/L		1	SM 2320B	09/23/2014 013	BT
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	09/23/2014 013	BT
Chloride	5	mg/L		1	EPA 300.0	09/23/2014 2318	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/23/2014 013	BT
Nitrogen, Nitrate+Nitrite (as N)	1.6	mg/L		0.1	EPA 353.2	09/25/2014 1824	AMB
Sulfate	7	mg/L		1	EPA 300.0	09/23/2014 2318	AB
Calcium	34	mg/L		1	EPA 200.7	09/22/2014 1454	DG
Magnesium	7	mg/L		1	EPA 200.7	09/22/2014 1454	DG
Potassium	5	mg/L		1	EPA 200.7	09/22/2014 1454	DG
Sodium	19	mg/L		1	EPA 200.7	09/22/2014 1454	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1655	AMB
Silica as SiO2	59	mg/L		1	EPA 200.7	09/22/2014 1454	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500-H B	09/23/2014 013	BT
Electrical Conductivity	336	µmhos/cm		1	SM 2510B	09/23/2014 013	BT
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	09/19/2014 1851	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
Data Quality							
Cation Sum	3.19	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	3.47	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	4.18	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.13	dec. %		0.01	Calculation	10/16/2014 922	WN

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-012
ClientSample ID: BOW-11
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
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	09/22/2014 1454	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/20/2014 616	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 616	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1454	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 616	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1454	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 616	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1454	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 616	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1454	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1050	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 616	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1454	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	09/20/2014 616	MS
Uranium	0.0051	mg/L		0.0003	EPA 200.8	09/20/2014 616	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 616	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1454	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 2053	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/28/2014 1453	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/28/2014 1453	MB
Polonium 210	<1	pCi/L		1	OTW01	10/30/2014 1654	MB
Polonium 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	10/30/2014 1654	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	11/10/2014 1034	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	11/10/2014 1034	MB
Thorium 229 Tracer (30-120)	54	%			ACW10	11/10/2014 1034	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID**	11/17/2014 S1409415001
ProjectName:	Marsland Quarterly Shallow Wells	**WorkOrder:**	S1409415
Lab ID:	S1409415-012	**CollectionDate:**	9/17/2014
ClientSample ID:	BOW-11	**DateReceived:**	9/19/2014 1:05:00 PM
COC:	WEB	**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	11/03/2014 000	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	11/03/2014 000	MB
Polonium 210	<1	pCi/L		1	OTW01	11/05/2014 000	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	11/05/2014 000	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/22/2014 1227	MB
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/22/2014 1227	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/30/2014 1415	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/30/2014 1415	MB
Thorium 229 Tracer (30-120)	73	%			ACW10	10/30/2014 1415	MB

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

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-001
Client Sample ID: Monitor 1

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/08/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	370	mg/L		1		A2320 B	11/10/11 23:50 / jba
Carbonate as CO3	8	mg/L		1		A2320 B	11/10/11 23:50 / jba
Bicarbonate as HCO3	436	mg/L		1		A2320 B	11/10/11 23:50 / jba
Calcium	4	mg/L		1		E200.7	11/16/11 14:45 / eli-b
Chloride	171	mg/L	H	1		A4500-Cl B	01/19/12 15:35 / lr
Fluoride	0.6	mg/L		0.1		A4500-F C	11/11/11 12:01 / jba
Magnesium	1	mg/L		1		E200.7	11/16/11 14:45 / eli-b
Nitrogen, Ammonia as N	0.26	mg/L		0.05		A4500-NH3 G	11/17/11 11:27 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:03 / dc
Potassium	8	mg/L		1		E200.7	11/16/11 14:45 / eli-b
Silica	13.3	mg/L		0.2		E200.7	11/16/11 14:45 / eli-b
Sodium	306	mg/L		1		E200.7	11/16/11 14:45 / eli-b
Sulfate	59	mg/L	D	2		E300.0	11/17/11 20:58 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1440	umhos/cm		1		A2510 B	11/18/11 12:47 / wc
pH	8.29	s.u.	H	0.01		A4500-H B	11/18/11 12:47 / wc
Solids, Total Dissolved TDS @ 180 C	797	mg/L		10		A2540 C	11/14/11 11:00 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	11/16/11 14:45 / eli-b
Arsenic	0.003	mg/L		0.001		E200.8	11/16/11 15:41 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 14:45 / eli-b
Boron	1.3	mg/L		0.1		E200.7	11/16/11 14:45 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 14:45 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 14:45 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 14:45 / eli-b
Iron	0.03	mg/L		0.03		E200.7	11/16/11 14:45 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 15:41 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 14:45 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/18/11 16:45 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 14:45 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 14:45 / eli-b
Selenium	0.003	mg/L		0.001		E200.8	11/16/11 15:41 / eli-b
Uranium	0.0060	mg/L		0.0003		E200.8	11/16/11 15:41 / eli-b
Uranium, Activity	4.0E-09	uCi/mL		2.0E-10		E200.8	11/16/11 15:41 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 14:45 / eli-b
Zinc	0.02	mg/L		0.01		E200.7	11/16/11 14:45 / eli-b
METALS - SUSPENDED							
Uranium	0.0403	mg/L		0.0003		E200.8	11/21/11 14:45 / sml
Uranium, Activity	2.7E-08	uCi/mL		2.0E-10		E200.8	11/21/11 14:45 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-001
Client Sample ID: Monitor 1

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/08/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	135	pCi/L		0.8		E909.0	01/26/12 00:22 / eli-cs
Lead 210 precision (±)	1.1	pCi/L				E909.0	01/26/12 00:22 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/26/12 00:22 / eli-cs
Polonium 210	17	pCi/L		0.9		E912.0	01/04/12 08:54 / plj
Polonium 210 precision (±)	5.7	pCi/L				E912.0	01/04/12 08:54 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	01/04/12 08:54 / plj
Radium 226	15	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.7	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	0.6	pCi/L		0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	65	pCi/L		1.1		E909.0	12/03/11 01:15 / eli-cs
Lead 210 precision (±)	1.4	pCi/L				E909.0	12/03/11 01:15 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	12/03/11 01:15 / eli-cs
Polonium 210	23	pCi/L		0.2		E912.0	12/14/11 10:54 / ep
Polonium 210 precision (±)	5.2	pCi/L				E912.0	12/14/11 10:54 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 10:54 / ep
Radium 226	18	pCi/L		0.1		E903.0	11/23/11 23:46 / js
Radium 226 precision (±)	0.6	pCi/L				E903.0	11/23/11 23:46 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Thorium 230	10	pCi/L		0.1		E908.0	12/07/11 09:54 / dmf
Thorium 230 precision (±)	1.2	pCi/L				E908.0	12/07/11 09:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.764	%				Calculation	02/03/12 12:31 / sdw
Anions	13.6	meq/L				Calculation	02/03/12 12:31 / sdw
Cations	13.8	meq/L				Calculation	02/03/12 12:31 / sdw
Solids, Total Dissolved Calculated	788	mg/L				Calculation	02/03/12 12:31 / sdw
TDS Balance (0.80 - 1.20)	1.01					Calculation	02/03/12 12:31 / sdw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-002
Client Sample ID: Monitor 2

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	374	mg/L		1		A2320 B	11/10/11 23:59 / jba
Carbonate as CO3	9	mg/L		1		A2320 B	11/10/11 23:59 / jba
Bicarbonate as HCO3	439	mg/L		1		A2320 B	11/10/11 23:59 / jba
Calcium	4	mg/L		1		E200.7	11/16/11 14:49 / eli-b
Chloride	176	mg/L		1		E300.0	11/18/11 21:53 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	11/11/11 12:06 / jba
Magnesium	1	mg/L		1		E200.7	11/16/11 14:49 / eli-b
Nitrogen, Ammonia as N	0.27	mg/L		0.05		A4500-NH3 G	11/17/11 11:29 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:11 / dc
Potassium	8	mg/L		1		E200.7	11/16/11 14:49 / eli-b
Silica	15.6	mg/L		0.2		E200.7	11/16/11 14:49 / eli-b
Sodium	299	mg/L		1		E200.7	11/16/11 14:49 / eli-b
Sulfate	57	mg/L		1		E300.0	11/17/11 21:38 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1410	umhos/cm		1		A2510 B	11/18/11 12:50 / wc
pH	8.32	s.u.	H	0.01		A4500-H B	11/18/11 12:50 / wc
Solids, Total Dissolved TDS @ 180 C	791	mg/L		10		A2540 C	11/14/11 11:01 / wc
METALS - DISSOLVED							
Aluminum	0.1	mg/L		0.1		E200.7	11/16/11 14:49 / eli-b
Arsenic	0.003	mg/L		0.001		E200.8	11/16/11 16:06 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 14:49 / eli-b
Boron	1.3	mg/L		0.1		E200.7	11/16/11 14:49 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 14:49 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 14:49 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 14:49 / eli-b
Iron	0.05	mg/L		0.03		E200.7	11/16/11 14:49 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:06 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 14:49 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/18/11 16:48 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 14:49 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 14:49 / eli-b
Selenium	0.003	mg/L		0.001		E200.8	11/16/11 16:06 / eli-b
Uranium	0.0023	mg/L		0.0003		E200.8	11/16/11 16:06 / eli-b
Uranium, Activity	1.6E-09	uCi/mL		2.0E-10		E200.8	11/16/11 16:06 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 14:49 / eli-b
Zinc	0.02	mg/L		0.01		E200.7	11/16/11 14:49 / eli-b
METALS - SUSPENDED							
Uranium	0.0010	mg/L		0.0003		E200.8	01/20/12 16:24 / sml
Uranium, Activity	6.9E-10	uCi/mL		2.0E-10		E200.8	01/20/12 16:24 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-002
Client Sample ID: Monitor 2

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	0.9	pCi/L		0.8		E909.0	01/24/12 23:38 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/24/12 23:38 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/24/12 23:38 / eli-cs
Polonium 210	3.3	pCi/L		0.9		E912.0	01/04/12 10:02 / plj
Polonium 210 precision (±)	1.7	pCi/L				E912.0	01/04/12 10:02 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	01/04/12 10:02 / plj
Radium 226	1.7	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.3	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	1.2	pCi/L		0.9		E909.0	12/03/11 07:30 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	12/03/11 07:30 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 07:30 / eli-cs
Polonium 210	0.3	pCi/L		0.3		E912.0	12/14/11 13:27 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/14/11 13:27 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	12/14/11 13:27 / ep
Radium 226	0.9	pCi/L		0.1		E903.0	11/23/11 23:46 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Thorium 230	0.2	pCi/L		0.1		E908.0	12/07/11 09:54 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.510	%				Calculation	01/11/12 07:40 / kbh
Anions	13.7	meq/L				Calculation	01/11/12 07:40 / kbh
Cations	13.5	meq/L				Calculation	01/11/12 07:40 / kbh
Solids, Total Dissolved Calculated	789	mg/L				Calculation	01/11/12 07:40 / kbh
TDS Balance (0.80 - 1.20)	1.00					Calculation	01/11/12 07:40 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-003
Client Sample ID: Monitor 4A

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	323	mg/L		1		A2320 B	11/11/11 00:08 / jba
Carbonate as CO3	25	mg/L		1		A2320 B	11/11/11 00:08 / jba
Bicarbonate as HCO3	342	mg/L		1		A2320 B	11/11/11 00:08 / jba
Calcium	3	mg/L		1		E200.7	11/16/11 14:53 / eli-b
Chloride	258	mg/L	D	2		E300.0	11/21/11 23:23 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	11/11/11 12:22 / jba
Magnesium	ND	mg/L		1		E200.7	11/16/11 14:53 / eli-b
Nitrogen, Ammonia as N	0.36	mg/L		0.05		A4500-NH3 G	11/17/11 11:31 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:13 / dc
Potassium	18	mg/L		1		E200.7	11/16/11 14:53 / eli-b
Silica	15.3	mg/L		0.2		E200.7	11/16/11 14:53 / eli-b
Sodium	365	mg/L		1		E200.7	11/16/11 14:53 / eli-b
Sulfate	113	mg/L	D	2		E300.0	11/17/11 21:52 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1750	umhos/cm		1		A2510 B	11/18/11 12:55 / wc
pH	8.91	s.u.	H	0.01		A4500-H B	11/18/11 12:55 / wc
Solids, Total Dissolved TDS @ 180 C	958	mg/L		10		A2540 C	11/14/11 11:01 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	11/16/11 14:53 / eli-b
Arsenic	0.005	mg/L		0.001		E200.8	11/16/11 16:10 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 14:53 / eli-b
Boron	1.3	mg/L		0.1		E200.7	11/16/11 14:53 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 14:53 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 14:53 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 14:53 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 14:53 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:10 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 14:53 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/18/11 16:51 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 14:53 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 14:53 / eli-b
Selenium	0.005	mg/L		0.001		E200.8	11/16/11 16:10 / eli-b
Uranium	0.0771	mg/L		0.0003		E200.8	11/16/11 16:10 / eli-b
Uranium, Activity	5.2E-08	uCi/mL		2.0E-10		E200.8	11/16/11 16:10 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 14:53 / eli-b
Zinc	ND	mg/L		0.01		E200.7	11/16/11 14:53 / eli-b
METALS - SUSPENDED							
Uranium	0.0008	mg/L		0.0003		E200.8	01/20/12 16:25 / sml
Uranium, Activity	5.6E-10	uCi/mL		2.0E-10		E200.8	01/20/12 16:25 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-003
Client Sample ID: Monitor 4A

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1130	pCi/L		1.3		E909.0	12/04/11 23:56 / eli-cs
Lead 210 precision (±)	4.6	pCi/L				E909.0	12/04/11 23:56 / eli-cs
Lead 210 MDC	1.3	pCi/L				E909.0	12/04/11 23:56 / eli-cs
Polonium 210	165	pCi/L		1.2		E912.0	01/04/12 14:17 / plj
Polonium 210 precision (±)	54	pCi/L				E912.0	01/04/12 14:17 / plj
Polonium 210 MDC	1.2	pCi/L				E912.0	01/04/12 14:17 / plj
Radium 226	262	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	3.0	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	22	pCi/L		0.9		E909.0	12/03/11 09:35 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0	12/03/11 09:35 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 09:35 / eli-cs
Polonium 210	6.2	pCi/L		0.2		E912.0	12/14/11 13:27 / ep
Polonium 210 precision (±)	1.4	pCi/L				E912.0	12/14/11 13:27 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 13:27 / ep
Radium 226	0.9	pCi/L		0.1		E903.0	11/23/11 23:46 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Thorium 230	0.3	pCi/L		0.1		E908.0	12/07/11 09:54 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.32	%				Calculation	01/11/12 07:43 / kbh
Anions	16.1	meq/L				Calculation	01/11/12 07:43 / kbh
Cations	16.6	meq/L				Calculation	01/11/12 07:43 / kbh
Solids, Total Dissolved Calculated	971	mg/L				Calculation	01/11/12 07:43 / kbh
TDS Balance (0.80 - 1.20)	0.990					Calculation	01/11/12 07:43 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-004
Client Sample ID: Monitor 5

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	248	mg/L		1		A2320 B	11/11/11 00:17 / jba
Carbonate as CO3	80	mg/L		1		A2320 B	11/11/11 00:17 / jba
Bicarbonate as HCO3	140	mg/L		1		A2320 B	11/11/11 00:17 / jba
Calcium	4	mg/L		1		E200.7	11/16/11 14:57 / eli-b
Chloride	320	mg/L	D	2		E300.0	11/21/11 23:37 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	11/11/11 12:30 / jba
Magnesium	1	mg/L		1		E200.7	11/16/11 14:57 / eli-b
Nitrogen, Ammonia as N	0.54	mg/L		0.05		A4500-NH3 G	11/17/11 11:33 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:16 / dc
Potassium	31	mg/L		1		E200.7	11/16/11 14:57 / eli-b
Silica	25.0	mg/L		0.2		E200.7	11/16/11 14:57 / eli-b
Sodium	438	mg/L		1		E200.7	11/16/11 14:57 / eli-b
Sulfate	312	mg/L	D	4		E300.0	11/18/11 22:47 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2260	umhos/cm		1		A2510 B	11/18/11 12:57 / wc
pH	9.72	s.u.	H	0.01		A4500-H B	11/18/11 12:57 / wc
Solids, Total Dissolved TDS @ 180 C	1290	mg/L		10		A2540 C	11/14/11 11:01 / wc
METALS - DISSOLVED							
Aluminum	0.3	mg/L		0.1		E200.7	11/16/11 14:57 / eli-b
Arsenic	0.002	mg/L		0.001		E200.8	11/16/11 16:14 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 14:57 / eli-b
Boron	1.1	mg/L		0.1		E200.7	11/16/11 14:57 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 14:57 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 14:57 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 14:57 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 14:57 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:14 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 14:57 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/18/11 16:54 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 14:57 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 14:57 / eli-b
Selenium	0.005	mg/L		0.001		E200.8	11/16/11 16:14 / eli-b
Uranium	0.0007	mg/L		0.0003		E200.8	11/16/11 16:14 / eli-b
Uranium, Activity	4.6E-10	uCi/mL		2.0E-10		E200.8	11/16/11 16:14 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 14:57 / eli-b
Zinc	0.02	mg/L		0.01		E200.7	11/16/11 14:57 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 14:51 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 14:51 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-004
Client Sample ID: Monitor 5

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/26/12 08:37 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/26/12 08:37 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/26/12 08:37 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	01/04/12 10:02 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	01/04/12 10:02 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	01/04/12 10:02 / plj
Radium 226	3.5	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.3	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	12/03/11 11:40 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	12/03/11 11:40 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 11:40 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	12/14/11 13:27 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	12/14/11 13:27 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 13:27 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	11/23/11 23:46 / js
Radium 226 precision (±)	0.05	pCi/L				E903.0	11/23/11 23:46 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 09:54 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/07/11 09:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.837	%				Calculation	01/11/12 07:44 / kbh
Anions	20.6	meq/L				Calculation	01/11/12 07:44 / kbh
Cations	20.2	meq/L				Calculation	01/11/12 07:44 / kbh
Solids, Total Dissolved Calculated	1290	mg/L				Calculation	01/11/12 07:44 / kbh
TDS Balance (0.80 - 1.20)	1.00					Calculation	01/11/12 07:44 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-005
Client Sample ID: Monitor 6

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	271	mg/L		1		A2320 B	11/11/11 00:25 / jba
Carbonate as CO3	25	mg/L		1		A2320 B	11/11/11 00:25 / jba
Bicarbonate as HCO3	280	mg/L		1		A2320 B	11/11/11 00:25 / jba
Calcium	13	mg/L		1		E200.7	11/16/11 15:01 / eli-b
Chloride	398	mg/L	D	4		E300.0	11/21/11 23:50 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	11/11/11 12:35 / jba
Magnesium	ND	mg/L		1		E200.7	11/16/11 15:01 / eli-b
Nitrogen, Ammonia as N	0.53	mg/L		0.05		A4500-NH3 G	11/17/11 11:35 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:18 / dc
Potassium	22	mg/L		1		E200.7	11/16/11 15:01 / eli-b
Silica	15.5	mg/L		0.2		E200.7	11/16/11 15:01 / eli-b
Sodium	377	mg/L		1		E200.7	11/16/11 15:01 / eli-b
Sulfate	53	mg/L		1		E300.0	11/17/11 22:19 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1950	umhos/cm		1		A2510 B	11/18/11 13:00 / wc
pH	8.82	s.u.	H	0.01		A4500-H B	11/18/11 13:00 / wc
Solids, Total Dissolved TDS @ 180 C	1040	mg/L		10		A2540 C	11/14/11 11:01 / wc
METALS - DISSOLVED							
Aluminum	0.1	mg/L		0.1		E200.7	11/16/11 15:01 / eli-b
Arsenic	0.002	mg/L		0.001		E200.8	11/16/11 16:35 / eli-b
Barium	0.1	mg/L		0.1		E200.7	11/16/11 15:01 / eli-b
Boron	1.2	mg/L		0.1		E200.7	11/16/11 15:01 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 15:01 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 15:01 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 15:01 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 15:01 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:35 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 15:01 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/18/11 16:56 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 15:01 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 15:01 / eli-b
Selenium	0.004	mg/L		0.001		E200.8	11/16/11 16:35 / eli-b
Uranium	0.0014	mg/L		0.0003		E200.8	11/16/11 16:35 / eli-b
Uranium, Activity	9.5E-10	uCi/mL		2.0E-10		E200.8	11/16/11 16:35 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 15:01 / eli-b
Zinc	ND	mg/L		0.01		E200.7	11/16/11 15:01 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 14:59 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 14:59 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-005
Client Sample ID: Monitor 6

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	2.2	pCi/L		1.3		E909.0	12/05/11 04:26 / eli-cs
Lead 210 precision (±)	0.8	pCi/L				E909.0	12/05/11 04:26 / eli-cs
Lead 210 MDC	1.3	pCi/L				E909.0	12/05/11 04:26 / eli-cs
Polonium 210	0.9	pCi/L		0.8		E912.0	01/04/12 10:02 / plj
Polonium 210 precision (±)	0.9	pCi/L				E912.0	01/04/12 10:02 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	01/04/12 10:02 / plj
Radium 226	1.9	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.3	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	12/03/11 13:45 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	12/03/11 13:45 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 13:45 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	12/14/11 13:28 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/14/11 13:28 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 13:28 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	11/23/11 23:46 / js
Radium 226 precision (±)	0.03	pCi/L				E903.0	11/23/11 23:46 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 09:54 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/07/11 09:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.320	%				Calculation	01/11/12 07:44 / kbh
Anions	17.8	meq/L				Calculation	01/11/12 07:44 / kbh
Cations	17.7	meq/L				Calculation	01/11/12 07:44 / kbh
Solids, Total Dissolved Calculated	1050	mg/L				Calculation	01/11/12 07:44 / kbh
TDS Balance (0.80 - 1.20)	0.990					Calculation	01/11/12 07:44 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-006
Client Sample ID: Monitor 7

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	245	mg/L		1		A2320 B	11/11/11 00:58 / jba
Carbonate as CO3	17	mg/L		1		A2320 B	11/11/11 00:58 / jba
Bicarbonate as HCO3	264	mg/L		1		A2320 B	11/11/11 00:58 / jba
Calcium	6	mg/L		1		E200.7	11/16/11 15:05 / eli-b
Chloride	241	mg/L		1		E300.0	11/18/11 23:14 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	11/11/11 12:42 / jba
Magnesium	2	mg/L		1		E200.7	11/16/11 15:05 / eli-b
Nitrogen, Ammonia as N	0.33	mg/L		0.05		A4500-NH3 G	11/17/11 11:37 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:28 / dc
Potassium	16	mg/L		1		E200.7	11/16/11 15:05 / eli-b
Silica	15.8	mg/L		0.2		E200.7	11/16/11 15:05 / eli-b
Sodium	410	mg/L		1		E200.7	11/16/11 15:05 / eli-b
Sulfate	305	mg/L	D	2		E300.0	11/17/11 22:32 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1960	umhos/cm		1		A2510 B	11/18/11 13:03 / wc
pH	8.86	s.u.	H	0.01		A4500-H B	11/18/11 13:03 / wc
Solids, Total Dissolved TDS @ 180 C	1110	mg/L		10		A2540 C	11/14/11 11:02 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	11/16/11 15:05 / eli-b
Arsenic	0.002	mg/L		0.001		E200.8	11/16/11 16:39 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 15:05 / eli-b
Boron	1.3	mg/L		0.1		E200.7	11/16/11 15:05 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 15:05 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 15:05 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 15:05 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 15:05 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:39 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 15:05 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/18/11 16:59 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 15:05 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 15:05 / eli-b
Selenium	0.004	mg/L		0.001		E200.8	11/16/11 16:39 / eli-b
Uranium	0.0005	mg/L		0.0003		E200.8	11/16/11 16:39 / eli-b
Uranium, Activity	3.1E-10	uCi/mL		2.0E-10		E200.8	11/16/11 16:39 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 15:05 / eli-b
Zinc	0.01	mg/L		0.01		E200.7	11/16/11 15:05 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 15:01 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 15:01 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-006
Client Sample ID: Monitor 7

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/26/12 16:51 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/26/12 16:51 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/26/12 16:51 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	01/04/12 10:02 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/04/12 10:02 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	01/04/12 10:02 / plj
Radium 226	0.9	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	12/03/11 15:50 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/03/11 15:50 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 15:50 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	12/14/11 13:28 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/14/11 13:28 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 13:28 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	11/23/11 23:46 / js
Radium 226 precision (±)	0.05	pCi/L				E903.0	11/23/11 23:46 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 09:54 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/07/11 09:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 09:54 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.67	%				Calculation	01/11/12 07:45 / kbh
Anions	18.1	meq/L				Calculation	01/11/12 07:45 / kbh
Cations	18.7	meq/L				Calculation	01/11/12 07:45 / kbh
Solids, Total Dissolved Calculated	1150	mg/L				Calculation	01/11/12 07:45 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	01/11/12 07:45 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-007
Client Sample ID: Monitor 8

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	253	mg/L		1		A2320 B	11/11/11 01:15 / jba
Carbonate as CO3	20	mg/L		1		A2320 B	11/11/11 01:15 / jba
Bicarbonate as HCO3	267	mg/L		1		A2320 B	11/11/11 01:15 / jba
Calcium	12	mg/L		1		E200.7	11/16/11 15:23 / eli-b
Chloride	250	mg/L	D	2		E300.0	11/22/11 00:03 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	11/11/11 12:45 / jba
Magnesium	2	mg/L		1		E200.7	11/16/11 15:23 / eli-b
Nitrogen, Ammonia as N	0.39	mg/L		0.05		A4500-NH3 G	11/17/11 11:39 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:36 / dc
Potassium	20	mg/L		1		E200.7	11/16/11 15:23 / eli-b
Silica	18.9	mg/L		0.2		E200.7	11/16/11 15:23 / eli-b
Sodium	445	mg/L		1		E200.7	11/16/11 15:23 / eli-b
Sulfate	388	mg/L	D	2		E300.0	11/17/11 22:46 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2180	umhos/cm		1		A2510 B	11/18/11 13:06 / wc
pH	8.91	s.u.	H	0.01		A4500-H B	11/18/11 13:06 / wc
Solids, Total Dissolved TDS @ 180 C	1260	mg/L		10		A2540 C	11/14/11 11:02 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	11/16/11 15:23 / eli-b
Arsenic	0.001	mg/L		0.001		E200.8	11/16/11 16:43 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 15:23 / eli-b
Boron	1.2	mg/L		0.1		E200.7	11/16/11 15:23 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 15:23 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 15:23 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 15:23 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 15:23 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:43 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 15:23 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/21/11 16:42 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 15:23 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 15:23 / eli-b
Selenium	0.003	mg/L		0.001		E200.8	11/16/11 16:43 / eli-b
Uranium	0.0006	mg/L		0.0003		E200.8	11/16/11 16:43 / eli-b
Uranium, Activity	4.1E-10	uCi/mL		2.0E-10		E200.8	11/16/11 16:43 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 15:23 / eli-b
Zinc	ND	mg/L		0.01		E200.7	11/16/11 15:23 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 15:03 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 15:03 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-007
Client Sample ID: Monitor 8

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/27/12 01:06 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/27/12 01:06 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/27/12 01:06 / eli-cs
Polonium 210	1.0	pCi/L		0.5		E912.0	01/04/12 10:02 / plj
Polonium 210 precision (±)	0.7	pCi/L				E912.0	01/04/12 10:02 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/04/12 10:02 / plj
Radium 226	2.3	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.3	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	12/03/11 17:55 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/03/11 17:55 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 17:55 / eli-cs
Polonium 210	0.2	pCi/L		0.2		E912.0	12/14/11 13:28 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/14/11 13:28 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 13:28 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	11/23/11 23:46 / js
Radium 226 precision (±)	0.07	pCi/L				E903.0	11/23/11 23:46 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/23/11 23:46 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 14:29 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/07/11 14:29 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 14:29 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.971	%				Calculation	01/11/12 07:46 / kbh
Anions	20.2	meq/L				Calculation	01/11/12 07:46 / kbh
Cations	20.6	meq/L				Calculation	01/11/12 07:46 / kbh
Solids, Total Dissolved Calculated	1290	mg/L				Calculation	01/11/12 07:46 / kbh
TDS Balance (0.80 - 1.20)	0.980					Calculation	01/11/12 07:46 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-008
Client Sample ID: Monitor 9

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	307	mg/L		1		A2320 B	11/11/11 01:34 / jba
Carbonate as CO3	38	mg/L		1		A2320 B	11/11/11 01:34 / jba
Bicarbonate as HCO3	297	mg/L		1		A2320 B	11/11/11 01:34 / jba
Calcium	2	mg/L		1		E200.7	11/16/11 15:27 / eli-b
Chloride	269	mg/L	D	2		E300.0	11/22/11 00:17 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	11/11/11 12:50 / jba
Magnesium	ND	mg/L		1		E200.7	11/16/11 15:27 / eli-b
Nitrogen, Ammonia as N	0.33	mg/L		0.05		A4500-NH3 G	11/17/11 11:41 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:38 / dc
Potassium	15	mg/L		1		E200.7	11/16/11 15:27 / eli-b
Silica	14.9	mg/L		0.2		E200.7	11/16/11 15:27 / eli-b
Sodium	344	mg/L		1		E200.7	11/16/11 15:27 / eli-b
Sulfate	91	mg/L	D	2		E300.0	11/17/11 22:59 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1700	umhos/cm		1		A2510 B	11/18/11 13:10 / wc
pH	8.91	s.u.	H	0.01		A4500-H B	11/18/11 13:10 / wc
Solids, Total Dissolved TDS @ 180 C	946	mg/L		10		A2540 C	11/14/11 11:02 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	11/16/11 15:27 / eli-b
Arsenic	0.002	mg/L		0.001		E200.8	11/16/11 16:48 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 15:27 / eli-b
Boron	1.1	mg/L		0.1		E200.7	11/16/11 15:27 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 15:27 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 15:27 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 15:27 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 15:27 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:48 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 15:27 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/21/11 16:45 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 15:27 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 15:27 / eli-b
Selenium	0.004	mg/L		0.001		E200.8	11/16/11 16:48 / eli-b
Uranium	0.0040	mg/L		0.0003		E200.8	11/16/11 16:48 / eli-b
Uranium, Activity	2.7E-09	uCi/mL		2.0E-10		E200.8	11/16/11 16:48 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 15:27 / eli-b
Zinc	ND	mg/L		0.01		E200.7	11/16/11 15:27 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 15:04 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 15:04 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-008
Client Sample ID: Monitor 9

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.3	pCi/L		1.3		E909.0	12/05/11 11:10 / eli-cs
Lead 210 precision (±)	0.8	pCi/L				E909.0	12/05/11 11:10 / eli-cs
Lead 210 MDC	1.3	pCi/L				E909.0	12/05/11 11:10 / eli-cs
Polonium 210	0.9	pCi/L		0.7		E912.0	01/04/12 11:08 / plj
Polonium 210 precision (±)	0.7	pCi/L				E912.0	01/04/12 11:08 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	01/04/12 11:08 / plj
Radium 226	0.3	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	12/03/11 20:00 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	12/03/11 20:00 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 20:00 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	12/14/11 15:03 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/14/11 15:03 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	12/14/11 15:03 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	11/24/11 01:21 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	11/24/11 01:21 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/24/11 01:21 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 14:29 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/07/11 14:29 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 14:29 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.463	%				Calculation	01/11/12 07:46 / kbh
Anions	15.7	meq/L				Calculation	01/11/12 07:46 / kbh
Cations	15.5	meq/L				Calculation	01/11/12 07:46 / kbh
Solids, Total Dissolved Calculated	925	mg/L				Calculation	01/11/12 07:46 / kbh
TDS Balance (0.80 - 1.20)	1.02					Calculation	01/11/12 07:46 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-009
Client Sample ID: Monitor 10

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	274	mg/L		1		A2320 B	11/11/11 01:41 / jba
Carbonate as CO3	16	mg/L		1		A2320 B	11/11/11 01:41 / jba
Bicarbonate as HCO3	301	mg/L		1		A2320 B	11/11/11 01:41 / jba
Calcium	6	mg/L		1		E200.7	11/16/11 15:31 / eli-b
Chloride	151	mg/L		1		E300.0	11/18/11 23:54 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	11/11/11 12:54 / jba
Magnesium	1	mg/L		1		E200.7	11/16/11 15:31 / eli-b
Nitrogen, Ammonia as N	0.37	mg/L		0.05		A4500-NH3 G	11/17/11 11:47 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:41 / dc
Potassium	11	mg/L		1		E200.7	11/16/11 15:31 / eli-b
Silica	17.2	mg/L		0.2		E200.7	11/16/11 15:31 / eli-b
Sodium	386	mg/L		1		E200.7	11/16/11 15:31 / eli-b
Sulfate	347	mg/L	D	2		E300.0	11/17/11 23:12 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1810	umhos/cm		1		A2510 B	11/18/11 13:12 / wc
pH	8.66	s.u.	H	0.01		A4500-H B	11/18/11 13:12 / wc
Solids, Total Dissolved TDS @ 180 C	1080	mg/L		10		A2540 C	11/14/11 11:02 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	11/16/11 15:31 / eli-b
Arsenic	0.002	mg/L		0.001		E200.8	11/16/11 16:52 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 15:31 / eli-b
Boron	1.3	mg/L		0.1		E200.7	11/16/11 15:31 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 15:31 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 15:31 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 15:31 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 15:31 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:52 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 15:31 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/21/11 16:48 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 15:31 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 15:31 / eli-b
Selenium	0.003	mg/L		0.001		E200.8	11/16/11 16:52 / eli-b
Uranium	0.0005	mg/L		0.0003		E200.8	11/16/11 16:52 / eli-b
Uranium, Activity	3.4E-10	uCi/mL		2.0E-10		E200.8	11/16/11 16:52 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 15:31 / eli-b
Zinc	ND	mg/L		0.01		E200.7	11/16/11 15:31 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 15:06 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 15:06 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-009
Client Sample ID: Monitor 10

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/27/12 09:20 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/27/12 09:20 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/27/12 09:20 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	01/04/12 11:08 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	01/04/12 11:08 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	01/04/12 11:08 / plj
Radium 226	0.8	pCi/L		0.1		E903.0	11/22/11 01:26 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	11/22/11 01:26 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 01:26 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	12/03/11 22:05 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	12/03/11 22:05 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/03/11 22:05 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	12/14/11 15:03 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	12/14/11 15:03 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 15:03 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	11/24/11 01:21 / js
Radium 226 precision (±)	0.03	pCi/L				E903.0	11/24/11 01:21 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/24/11 01:21 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 14:29 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/07/11 14:29 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 14:29 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.52	%				Calculation	01/11/12 07:47 / kbh
Anions	17.0	meq/L				Calculation	01/11/12 07:47 / kbh
Cations	17.5	meq/L				Calculation	01/11/12 07:47 / kbh
Solids, Total Dissolved Calculated	1090	mg/L				Calculation	01/11/12 07:47 / kbh
TDS Balance (0.80 - 1.20)	0.990					Calculation	01/11/12 07:47 / kbh

Report Definitions:
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MDC - Minimum detectable concentration
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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-010
Client Sample ID: Monitor 11

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	323	mg/L		1		A2320 B	11/11/11 01:50 / jba
Carbonate as CO3	32	mg/L		1		A2320 B	11/11/11 01:50 / jba
Bicarbonate as HCO3	330	mg/L		1		A2320 B	11/11/11 01:50 / jba
Calcium	5	mg/L		1		E200.7	11/16/11 15:35 / eli-b
Chloride	370	mg/L	D	4		E300.0	11/22/11 00:30 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	11/11/11 12:57 / jba
Magnesium	1	mg/L		1		E200.7	11/16/11 15:35 / eli-b
Nitrogen, Ammonia as N	0.37	mg/L		0.05		A4500-NH3 G	11/17/11 11:53 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:43 / dc
Potassium	21	mg/L		1		E200.7	11/16/11 15:35 / eli-b
Silica	12.4	mg/L		0.2		E200.7	11/16/11 15:35 / eli-b
Sodium	425	mg/L		1		E200.7	11/16/11 15:35 / eli-b
Sulfate	124	mg/L	D	2		E300.0	11/17/11 23:26 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2120	umhos/cm		1		A2510 B	11/18/11 13:16 / wc
pH	8.99	s.u.	H	0.01		A4500-H B	11/18/11 13:16 / wc
Solids, Total Dissolved TDS @ 180 C	1160	mg/L		10		A2540 C	11/14/11 11:02 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	11/16/11 15:35 / eli-b
Arsenic	0.003	mg/L		0.001		E200.8	11/16/11 16:56 / eli-b
Barium	ND	mg/L		0.1		E200.7	11/16/11 15:35 / eli-b
Boron	1.2	mg/L		0.1		E200.7	11/16/11 15:35 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 15:35 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 15:35 / eli-b
Copper	ND	mg/L		0.01		E200.7	11/16/11 15:35 / eli-b
Iron	ND	mg/L		0.03		E200.7	11/16/11 15:35 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 16:56 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 15:35 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/21/11 16:51 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 15:35 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 15:35 / eli-b
Selenium	0.005	mg/L		0.001		E200.8	11/16/11 16:56 / eli-b
Uranium	0.0014	mg/L		0.0003		E200.8	11/16/11 16:56 / eli-b
Uranium, Activity	9.3E-10	uCi/mL		2.0E-10		E200.8	11/16/11 16:56 / eli-b
Vanadium	ND	mg/L		0.1		E200.7	11/16/11 15:35 / eli-b
Zinc	ND	mg/L		0.01		E200.7	11/16/11 15:35 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 15:29 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 15:29 / sml

Report Definitions:
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QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-010
Client Sample ID: Monitor 11

Revised Date: 02/03/12
Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/27/12 17:35 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/27/12 17:35 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/27/12 17:35 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	01/04/12 11:08 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/04/12 11:08 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	01/04/12 11:08 / plj
Radium 226	0.4	pCi/L		0.1		E903.0	11/22/11 03:07 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	11/22/11 03:07 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 03:07 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	12/04/11 00:10 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/04/11 00:10 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/04/11 00:10 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	12/14/11 15:03 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	12/14/11 15:03 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 15:03 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	11/24/11 01:21 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	11/24/11 01:21 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/24/11 01:21 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 14:29 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/07/11 14:29 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 14:29 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.277	%				Calculation	01/11/12 07:47 / kbh
Anions	19.5	meq/L				Calculation	01/11/12 07:47 / kbh
Cations	19.4	meq/L				Calculation	01/11/12 07:47 / kbh
Solids, Total Dissolved Calculated	1160	mg/L				Calculation	01/11/12 07:47 / kbh
TDS Balance (0.80 - 1.20)	1.00					Calculation	01/11/12 07:47 / kbh

Report Definitions:
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MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-011
Client Sample ID: CPW 2010-1

Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	15	pCi/L		1.3		E909.0	12/05/11 22:24 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0	12/05/11 22:24 / eli-cs
Lead 210 MDC	1.3	pCi/L				E909.0	12/05/11 22:24 / eli-cs
Polonium 210	6.6	pCi/L		0.6		E912.0	01/04/12 11:08 / plj
Polonium 210 precision (±)	2.2	pCi/L				E912.0	01/04/12 11:08 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	01/04/12 11:08 / plj
Radium 226	23	pCi/L		0.1		E903.0	11/22/11 03:07 / js
Radium 226 precision (±)	0.8	pCi/L				E903.0	11/22/11 03:07 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/22/11 03:07 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/07/11 09:03 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/07/11 09:03 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/07/11 09:03 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	1.5	pCi/L		0.9		E909.0	12/04/11 02:15 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	12/04/11 02:15 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	12/04/11 02:15 / eli-cs
Polonium 210	0.8	pCi/L		0.2		E912.0	12/14/11 15:03 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/14/11 15:03 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	12/14/11 15:03 / ep
Radium 226	1.6	pCi/L		0.1		E903.0	11/24/11 01:21 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	11/24/11 01:21 / js
Radium 226 MDC	0.1	pCi/L				E903.0	11/24/11 01:21 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/07/11 14:29 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/07/11 14:29 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/07/11 14:29 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.57	%				Calculation	01/11/12 07:47 / kbh
Anions	24.6	meq/L				Calculation	01/11/12 07:47 / kbh
Cations	23.8	meq/L				Calculation	01/11/12 07:47 / kbh
Solids, Total Dissolved Calculated	1450	mg/L				Calculation	01/11/12 07:47 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	01/11/12 07:47 / kbh

Report Definitions:
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ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Deep Wells G-8 Samples
Lab ID: C11110439-011
Client Sample ID: CPW 2010-1

Report Date: 01/11/12
Collection Date: 11/07/11
DateReceived: 11/10/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	288	mg/L		1		A2320 B	11/11/11 01:59 / jba
Carbonate as CO3	78	mg/L		1		A2320 B	11/11/11 01:59 / jba
Bicarbonate as HCO3	193	mg/L		1		A2320 B	11/11/11 01:59 / jba
Calcium	10	mg/L		1		E200.7	11/16/11 15:39 / eli-b
Chloride	605	mg/L	D	4		E300.0	11/19/11 00:48 / ljl
Fluoride	0.9	mg/L		0.1		A4500-F C	11/11/11 13:01 / jba
Magnesium	ND	mg/L		1		E200.7	11/16/11 15:39 / eli-b
Nitrogen, Ammonia as N	0.70	mg/L		0.05		A4500-NH3 G	11/17/11 11:55 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	11/11/11 16:46 / dc
Potassium	35	mg/L		1		E200.7	11/16/11 15:39 / eli-b
Silica	20.7	mg/L		0.2		E200.7	11/16/11 15:39 / eli-b
Sodium	514	mg/L	D	2		E200.7	11/16/11 15:39 / eli-b
Sulfate	80	mg/L	D	8		E300.0	11/18/11 00:06 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2740	umhos/cm		1		A2510 B	11/14/11 11:58 / wc
pH	9.62	s.u.		0.01		A4500-H B	11/14/11 11:58 / wc
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		10		A2540 C	11/14/11 11:03 / wc
METALS - DISSOLVED							
Aluminum	0.3	mg/L		0.1		E200.7	11/16/11 15:39 / eli-b
Arsenic	0.001	mg/L		0.001		E200.8	11/16/11 17:00 / eli-b
Barium	0.1	mg/L		0.1		E200.7	11/16/11 15:39 / eli-b
Boron	1.2	mg/L		0.1		E200.7	11/16/11 15:39 / eli-b
Cadmium	ND	mg/L		0.005		E200.7	11/16/11 15:39 / eli-b
Chromium	ND	mg/L		0.05		E200.7	11/16/11 15:39 / eli-b
Copper	ND	mg/L		0.01		E200.8	11/16/11 17:00 / eli-b
Iron	0.04	mg/L		0.03		E200.7	11/16/11 15:39 / eli-b
Lead	ND	mg/L		0.001		E200.8	11/16/11 17:00 / eli-b
Manganese	ND	mg/L		0.01		E200.7	11/16/11 15:39 / eli-b
Mercury	ND	mg/L		0.001		E200.8	11/21/11 16:54 / eli-b
Molybdenum	ND	mg/L		0.1		E200.7	11/16/11 15:39 / eli-b
Nickel	ND	mg/L		0.05		E200.7	11/16/11 15:39 / eli-b
Selenium	0.006	mg/L		0.001		E200.8	11/16/11 17:00 / eli-b
Uranium	0.0142	mg/L		0.0003		E200.8	11/16/11 17:00 / eli-b
Uranium, Activity	9.6E-09	uCi/mL		2.0E-10		E200.8	11/16/11 17:00 / eli-b
Vanadium	0.1	mg/L		0.1		E200.7	11/16/11 15:39 / eli-b
Zinc	ND	mg/L		0.01		E200.8	11/16/11 17:00 / eli-b
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	11/21/11 15:31 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	11/21/11 15:31 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-001
ClientSample ID: Monitor 1
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 2:25:00 PM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	398	mg/L		5	SM 2320B	02/20/2012 1858	MZ
Alkalinity, Bicarbonate as HCO3	486	mg/L		5	SM 2320B	02/20/2012 1858	MZ
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	02/20/2012 1858	MZ
Chloride	180	mg/L		1	EPA 300.0	02/20/2012 1245	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	02/20/2012 1858	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1310	MB
Sulfate	48	mg/L		1	EPA 300.0	02/17/2012 1817	AMB
Calcium	4	mg/L		1	EPA 200.7	02/17/2012 1300	DG
Magnesium	1	mg/L		1	EPA 200.7	02/17/2012 1300	DG
Potassium	11	mg/L		1	EPA 200.7	02/17/2012 1300	DG
Sodium	330	mg/L		1	EPA 200.7	02/17/2012 1300	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	02/27/2012 1019	MEL
Silica as SiO2	14	mg/L		1	EPA 200.7	02/17/2012 1300	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	02/20/2012 1858	MZ
Electrical Conductivity	1490	µmhos/cm		1	SM 2510B	02/20/2012 1858	MZ
Total Dissolved Solids (180)	830	mg/L		10	SM 2540	02/17/2012 1350	ARF
Data Quality							
Cation Sum	14.96	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	14.08	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	3.04	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	830	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-001
ClientSample ID: Monitor 1
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 2:25:00 PM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1300	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	02/16/2012 1928	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 1928	MS
Boron	1.4	mg/L		0.1	EPA 200.7	02/17/2012 1300	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 1928	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1300	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 1928	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1300	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 1928	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1300	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 946	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 1928	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1300	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/16/2012 1928	MS
Uranium	0.0064	mg/L		0.0003	EPA 200.8	02/16/2012 1928	MS
Uranium Activity	4.3	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 1928	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1300	DG
Metals - Suspended							
Uranium	0.0008	mg/L		0.0003	EPA 200.8	03/15/2012 1601	MS
Uranium Activity	0.5	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	11.0	pCi/L		1	OTW01	03/05/2012 1327	SH
Lead 210 Precision (±)	0.9	pCi/L			OTW01	03/05/2012 1327	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1204	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1204	SH
Radium 226	12.3	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1304	SH
Radium 226 Precision (±)	0.4	pCi/L			SM 7500-Ra B	02/29/2012 1304	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/28/2012 910	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/28/2012 910	WL

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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-001
ClientSample ID: Monitor 1
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 2:25:00 PM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	61.2	pCi/L		1	OTW01	03/06/2012 1402	SH
Lead 210 Precision (±)	2.1	pCi/L			OTW01	03/06/2012 1402	SH
Polonium 210	8.8	pCi/L		1	OTW01	03/02/2012 1136	SH
Polonium 210 Precision (±)	1.0	pCi/L			OTW01	03/02/2012 1136	SH
Radium 226	8.8	pCi/L	B	0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	0.5	pCi/L	B		SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	4.3	pCi/L		0.2	ACW10	03/12/2012 940	WL
Thorium 230 Precision (±)	0.6	pCi/L			ACW10	03/12/2012 940	WL

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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-002
ClientSample ID: Monitor 2
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	394	mg/L		5	SM 2320B	02/20/2012 1909	MZ
Alkalinity, Bicarbonate as HCO3	480	mg/L		5	SM 2320B	02/20/2012 1909	MZ
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	02/20/2012 1909	MZ
Chloride	168	mg/L		1	EPA 300.0	02/20/2012 1259	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	02/20/2012 1909	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1311	MB
Sulfate	47	mg/L		1	EPA 300.0	02/17/2012 1829	AMB
Calcium	5	mg/L		1	EPA 200.7	02/17/2012 1305	DG
Magnesium	1	mg/L		1	EPA 200.7	02/17/2012 1305	DG
Potassium	12	mg/L		1	EPA 200.7	02/17/2012 1305	DG
Sodium	322	mg/L		1	EPA 200.7	02/17/2012 1305	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	02/27/2012 1020	MEL
Silica as SiO2	15	mg/L		1	EPA 200.7	02/17/2012 1305	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	02/20/2012 1909	MZ
Electrical Conductivity	1450	µmhos/cm		1	SM 2510B	02/20/2012 1909	MZ
Total Dissolved Solids (180)	830	mg/L		10	SM 2540	02/17/2012 1351	ARF
Data Quality							
Cation Sum	14.60	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	13.61	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	3.49	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	810	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.02	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-002
ClientSample ID: Monitor 2
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 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	02/17/2012 1305	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	02/16/2012 1957	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 1957	MS
Boron	1.4	mg/L		0.1	EPA 200.7	02/17/2012 1305	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 1957	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1305	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 1957	MS
Iron	0.05	mg/L		0.05	EPA 200.7	02/17/2012 1305	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 1957	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1305	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 948	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 1957	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1305	DG
Selenium	ND	mg/L		0.001	EPA 200.8	02/16/2012 1957	MS
Uranium	0.0034	mg/L		0.0003	EPA 200.8	02/16/2012 1957	MS
Uranium Activity	2.3	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 1957	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	02/17/2012 1305	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1605	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	1.2	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1304	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	02/29/2012 1304	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/28/2012 910	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/28/2012 910	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-002
ClientSample ID: Monitor 2
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	0.5	pCi/L	B	0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	0.1	pCi/L	B		SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/01/2012 907	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/01/2012 907	WL

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-003
ClientSample ID: Monitor 4A
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	358	mg/L		5	SM 2320B	02/20/2012 1919	MZ
Alkalinity, Bicarbonate as HCO3	414	mg/L		5	SM 2320B	02/20/2012 1919	MZ
Alkalinity, Carbonate as CO3	11	mg/L		5	SM 2320B	02/20/2012 1919	MZ
Chloride	226	mg/L		1	EPA 300.0	02/20/2012 1408	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	02/20/2012 1919	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1312	MB
Sulfate	103	mg/L		1	EPA 300.0	02/29/2012 2155	AMB
Calcium	4	mg/L		1	EPA 200.7	03/01/2012 1824	DG
Magnesium	ND	mg/L		1	EPA 200.7	03/01/2012 1824	DG
Potassium	23	mg/L		1	EPA 200.7	03/01/2012 1824	DG
Sodium	367	mg/L		1	EPA 200.7	03/01/2012 1824	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	02/27/2012 1026	MEL
Silica as SiO2	14	mg/L		1	EPA 200.7	02/17/2012 1319	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	02/20/2012 1919	MZ
Electrical Conductivity	1710	µmhos/cm		1	SM 2510B	02/20/2012 1919	MZ
Total Dissolved Solids (180)	940	mg/L		10	SM 2540	02/17/2012 1352	ARF
Data Quality							
Cation Sum	16.74	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	15.71	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	3.17	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	950	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.99	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-003
ClientSample ID: Monitor 4A
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1319	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	02/16/2012 2002	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 2002	MS
Boron	1.6	mg/L		0.1	EPA 200.7	02/17/2012 1319	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2002	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1319	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2002	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1319	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2002	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1319	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 950	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2002	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1319	DG
Selenium	0.024	mg/L		0.001	EPA 200.8	02/16/2012 2002	MS
Uranium	0.0457	mg/L		0.0003	EPA 200.8	02/16/2012 2002	MS
Uranium Activity	30.9	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2002	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1319	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1610	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	591	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	5.3	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	62.6	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	3.2	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	321	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1304	SH
Radium 226 Precision (±)	2.2	pCi/L			SM 7500-Ra B	02/29/2012 1304	SH
Thorium 230	0.7	pCi/L		0.2	ACW10	02/28/2012 910	WL
Thorium 230 Precision (±)	0.2	pCi/L			ACW10	02/28/2012 910	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-003
ClientSample ID: Monitor 4A
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	49.7	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	1.5	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	39.7	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	2.6	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	0.5	pCi/L	B	0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	0.1	pCi/L	B		SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/12/2012 940	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/12/2012 940	WL

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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-004
ClientSample ID: Monitor 5
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	260	mg/L		5	SM 2320B	02/20/2012 1939	MZ
Alkalinity, Bicarbonate as HCO3	214	mg/L		5	SM 2320B	02/20/2012 1939	MZ
Alkalinity, Carbonate as CO3	51	mg/L		5	SM 2320B	02/20/2012 1939	MZ
Chloride	280	mg/L		1	EPA 300.0	02/20/2012 1422	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	02/20/2012 1939	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1314	MB
Sulfate	269	mg/L		1	EPA 300.0	02/17/2012 1852	AMB
Calcium	5	mg/L		1	EPA 200.7	02/17/2012 1321	DG
Magnesium	1	mg/L		1	EPA 200.7	02/17/2012 1321	DG
Potassium	36	mg/L		1	EPA 200.7	02/17/2012 1321	DG
Sodium	454	mg/L		1	EPA 200.7	02/17/2012 1321	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	02/27/2012 1027	MEL
Silica as SiO2	23	mg/L		1	EPA 200.7	02/17/2012 1321	DG
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	02/20/2012 1939	MZ
Electrical Conductivity	2220	µmhos/cm		1	SM 2510B	02/20/2012 1939	MZ
Total Dissolved Solids (180)	1220	mg/L		10	SM 2540	02/17/2012 1353	ARF
Data Quality							
Cation Sum	21.03	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	19.11	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	4.76	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	1220	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	3/26/2012
		Report ID:	S1202246001
ProjectName:	Marsland Chadron Well Sampling	**WorkOrder:**	S1202246
Lab ID:	S1202246-004	**CollectionDate:**	2/13/2012
ClientSample ID:	Monitor 5	**DateReceived:**	2/16/2012 10:36:00 AM
COC:	143865	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	02/17/2012 1321	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	02/16/2012 2007	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 2007	MS
Boron	1.2	mg/L		0.1	EPA 200.7	02/17/2012 1321	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2007	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1321	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2007	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1321	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2007	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1321	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 951	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2007	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1321	DG
Selenium	0.068	mg/L		0.001	EPA 200.8	02/16/2012 2007	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	02/16/2012 2007	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2007	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1321	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1640	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	0.9	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/28/2012 910	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/28/2012 910	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-004
ClientSample ID: Monitor 5
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/01/2012 908	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/01/2012 908	WL

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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-005
ClientSample ID: Monitor 6
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	292	mg/L		5	SM 2320B	02/20/2012 1949	MZ
Alkalinity, Bicarbonate as HCO3	334	mg/L		5	SM 2320B	02/20/2012 1949	MZ
Alkalinity, Carbonate as CO3	11	mg/L		5	SM 2320B	02/20/2012 1949	MZ
Chloride	361	mg/L		1	EPA 300.0	02/20/2012 1436	AMB
Fluoride	0.8	mg/L		0.1	SM 4500FC	02/20/2012 1949	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1315	MB
Sulfate	45	mg/L		1	EPA 300.0	02/17/2012 1903	AMB
Calcium	14	mg/L		1	EPA 200.7	02/17/2012 1324	DG
Magnesium	ND	mg/L		1	EPA 200.7	02/17/2012 1324	DG
Potassium	25	mg/L		1	EPA 200.7	02/17/2012 1324	DG
Sodium	381	mg/L		1	EPA 200.7	02/17/2012 1324	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	02/27/2012 1028	MEL
Silica as SiO2	15	mg/L		1	EPA 200.7	02/17/2012 1324	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	02/20/2012 1949	MZ
Electrical Conductivity	1920	µmhos/cm		1	SM 2510B	02/20/2012 1949	MZ
Total Dissolved Solids (180)	1000	mg/L		10	SM 2540	02/17/2012 1354	ARF
Data Quality							
Cation Sum	17.90	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	17.01	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	2.56	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	1020	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.98	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-005
ClientSample ID: Monitor 6
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1324	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	02/16/2012 2012	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/16/2012 2012	MS
Boron	1.3	mg/L		0.1	EPA 200.7	02/17/2012 1324	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2012	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1324	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2012	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1324	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2012	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1324	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 953	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2012	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1324	DG
Selenium	0.033	mg/L		0.001	EPA 200.8	02/16/2012 2012	MS
Uranium	0.0011	mg/L		0.0003	EPA 200.8	02/16/2012 2012	MS
Uranium Activity	0.7	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2012	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1324	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1644	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	1.6	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	1.8	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.2	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	0.4	pCi/L		0.2	ACW10	02/28/2012 910	WL
Thorium 230 Precision (±)	0.2	pCi/L			ACW10	02/28/2012 910	WL

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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-005
ClientSample ID: Monitor 6
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/12/2012 940	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/12/2012 940	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-006
ClientSample ID: Monitor 7
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 10:15:00 AM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	283	mg/L		5	SM 2320B	02/20/2012 1958	MZ
Alkalinity, Bicarbonate as HCO3	321	mg/L		5	SM 2320B	02/20/2012 1958	MZ
Alkalinity, Carbonate as CO3	12	mg/L		5	SM 2320B	02/20/2012 1958	MZ
Chloride	216	mg/L		1	EPA 300.0	02/20/2012 1450	AMB
Fluoride	0.8	mg/L		0.1	SM 4500FC	02/20/2012 1958	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1316	MB
Sulfate	266	mg/L		1	EPA 300.0	02/17/2012 1914	AMB
Calcium	7	mg/L		1	EPA 200.7	02/17/2012 1326	DG
Magnesium	2	mg/L		1	EPA 200.7	02/17/2012 1326	DG
Potassium	21	mg/L		1	EPA 200.7	02/17/2012 1326	DG
Sodium	422	mg/L		1	EPA 200.7	02/17/2012 1326	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	02/27/2012 1029	MEL
Silica as SiO2	16	mg/L		1	EPA 200.7	02/17/2012 1326	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	02/20/2012 1958	MZ
Electrical Conductivity	1970	µmhos/cm		1	SM 2510B	02/20/2012 1958	MZ
Total Dissolved Solids (180)	1130	mg/L		10	SM 2540	02/17/2012 1355	ARF
Data Quality							
Cation Sum	19.39	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	17.59	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	4.86	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	1120	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.01	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported**	3/26/2012
		Report ID:	S1202246001
ProjectName:	Marsland Chadron Well Sampling	**WorkOrder:**	S1202246
Lab ID:	S1202246-006	**CollectionDate:**	2/13/2012 10:15:00 AM
ClientSample ID:	Monitor 7	**DateReceived:**	2/16/2012 10:36:00 AM
COC:	143865	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1326	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	02/16/2012 2017	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 2017	MS
Boron	1.4	mg/L		0.1	EPA 200.7	02/17/2012 1326	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2017	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1326	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2017	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1326	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2017	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1326	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 955	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2017	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1326	DG
Selenium	0.011	mg/L		0.001	EPA 200.8	02/16/2012 2017	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	02/16/2012 2017	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2017	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	02/17/2012 1326	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1649	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	0.3	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/29/2012 815	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/29/2012 815	WL

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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-006
ClientSample ID: Monitor 7
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 10:15:00 AM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/12/2012 1351	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/12/2012 1351	WL

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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported: 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-007
ClientSample ID: Monitor 8
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	274	mg/L		5	SM 2320B	02/20/2012 2008	MZ
Alkalinity, Bicarbonate as HCO3	318	mg/L		5	SM 2320B	02/20/2012 2008	MZ
Alkalinity, Carbonate as CO3	8	mg/L		5	SM 2320B	02/20/2012 2008	MZ
Chloride	197	mg/L		1	EPA 300.0	02/20/2012 1504	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	02/20/2012 2008	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1317	MB
Sulfate	349	mg/L		1	EPA 300.0	02/17/2012 1926	AMB
Calcium	10	mg/L		1	EPA 200.7	02/17/2012 1328	DG
Magnesium	2	mg/L		1	EPA 200.7	02/17/2012 1328	DG
Potassium	24	mg/L		1	EPA 200.7	02/17/2012 1328	DG
Sodium	441	mg/L		1	EPA 200.7	02/17/2012 1328	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	02/27/2012 1030	MEL
Silica as SiO2	16	mg/L		1	EPA 200.7	02/17/2012 1328	DG
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	02/20/2012 2008	MZ
Electrical Conductivity	2090	µmhos/cm		1	SM 2510B	02/20/2012 2008	MZ
Total Dissolved Solids (180)	1190	mg/L		10	SM 2540	02/17/2012 1356	ARF
Data Quality							
Cation Sum	20.51	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	18.60	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	4.86	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.99	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-007
ClientSample ID: Monitor 8
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1328	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	02/16/2012 2022	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 2022	MS
Boron	1.2	mg/L		0.1	EPA 200.7	02/17/2012 1328	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2022	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1328	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2022	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1328	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2022	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1328	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 1004	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2022	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1328	DG
Selenium	0.012	mg/L		0.001	EPA 200.8	02/16/2012 2022	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	02/16/2012 2022	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2022	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1328	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1654	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	1.1	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	0.4	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/29/2012 815	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/29/2012 815	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-007
ClientSample ID: Monitor 8
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	0.1	pCi/L		0.2	ACW10	03/02/2012 907	WL
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/02/2012 907	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-008
ClientSample ID: Monitor 9
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	336	mg/L		5	SM 2320B	02/20/2012 2017	MZ
Alkalinity, Bicarbonate as HCO3	381	mg/L		5	SM 2320B	02/20/2012 2017	MZ
Alkalinity, Carbonate as CO3	14	mg/L		5	SM 2320B	02/20/2012 2017	MZ
Chloride	252	mg/L		1	EPA 300.0	02/17/2012 1937	AMB
Fluoride	0.8	mg/L		0.1	SM 4500FC	02/20/2012 2017	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1325	MB
Sulfate	78	mg/L		1	EPA 300.0	02/17/2012 1937	AMB
Calcium	3	mg/L		1	EPA 200.7	02/17/2012 1331	DG
Magnesium	ND	mg/L		1	EPA 200.7	02/17/2012 1331	DG
Potassium	19	mg/L		1	EPA 200.7	02/17/2012 1331	DG
Sodium	362	mg/L		1	EPA 200.7	02/17/2012 1331	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	02/27/2012 1031	MEL
Silica as SiO2	15	mg/L		1	EPA 200.7	02/17/2012 1331	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	02/20/2012 2017	MZ
Electrical Conductivity	1690	µmhos/cm		1	SM 2510B	02/20/2012 2017	MZ
Total Dissolved Solids (180)	890	mg/L		10	SM 2540	02/17/2012 1357	ARF
Data Quality							
Cation Sum	16.40	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	15.51	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	2.77	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	930	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	3/26/2012 S1202246001
ProjectName:	Marsland Chadron Well Sampling	**WorkOrder:**	S1202246
Lab ID:	S1202246-008	**CollectionDate:**	2/13/2012
ClientSample ID:	Monitor 9	**DateReceived:**	2/16/2012 10:36:00 AM
COC:	143865	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1331	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	02/16/2012 2027	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 2027	MS
Boron	1.2	mg/L		0.1	EPA 200.7	02/17/2012 1331	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2027	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1331	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2027	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1331	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2027	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1331	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 1012	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2027	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1331	DG
Selenium	0.011	mg/L		0.001	EPA 200.8	02/16/2012 2027	MS
Uranium	0.0022	mg/L		0.0003	EPA 200.8	02/16/2012 2027	MS
Uranium Activity	1.5	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2027	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1331	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1659	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	1.9	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	0.3	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/29/2012 815	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/29/2012 815	WL

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

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-008
ClientSample ID: Monitor 9
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/02/2012 908	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/02/2012 908	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-009
ClientSample ID: Monitor 10
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	307	mg/L		5	SM 2320B	02/20/2012 2027	MZ
Alkalinity, Bicarbonate as HCO3	363	mg/L		5	SM 2320B	02/20/2012 2027	MZ
Alkalinity, Carbonate as CO3	6	mg/L		5	SM 2320B	02/20/2012 2027	MZ
Chloride	143	mg/L		1	EPA 300.0	02/17/2012 1949	AMB
Fluoride	0.7	mg/L		0.1	SM 4500FC	02/20/2012 2027	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1326	MB
Sulfate	307	mg/L		1	EPA 300.0	02/17/2012 1949	AMB
Calcium	7	mg/L		1	EPA 200.7	02/17/2012 1335	DG
Magnesium	2	mg/L		1	EPA 200.7	02/17/2012 1335	DG
Potassium	15	mg/L		1	EPA 200.7	02/17/2012 1335	DG
Sodium	405	mg/L		1	EPA 200.7	02/17/2012 1335	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	02/27/2012 1032	MEL
Silica as SiO2	16	mg/L		1	EPA 200.7	02/17/2012 1335	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	02/20/2012 2027	MZ
Electrical Conductivity	1880	µmhos/cm		1	SM 2510B	02/20/2012 2027	MZ
Total Dissolved Solids (180)	1090	mg/L		10	SM 2540	02/17/2012 1358	ARF
Data Quality							
Cation Sum	18.53	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	16.87	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	4.67	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	1080	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.01	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-009
ClientSample ID: Monitor 10
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1335	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	02/16/2012 2032	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 2032	MS
Boron	1.3	mg/L		0.1	EPA 200.7	02/17/2012 1335	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2032	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1335	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2032	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1335	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2032	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1335	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 1014	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2032	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1335	DG
Selenium	ND	mg/L		0.001	EPA 200.8	02/16/2012 2032	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	02/16/2012 2032	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2032	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	02/17/2012 1335	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1704	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	03/05/2012 1605	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/05/2012 1605	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	0.5	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/29/2012 815	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/29/2012 815	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	3/26/2012 S1202246001
ProjectName:	Marsland Chadron Well Sampling	**WorkOrder:**	S1202246
Lab ID:	S1202246-009	**CollectionDate:**	2/13/2012
ClientSample ID:	Monitor 10	**DateReceived:**	2/16/2012 10:36:00 AM
COC:	143865	**FieldSampler:**	WN
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/02/2012 908	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/02/2012 908	WL

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

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-010
ClientSample ID: Monitor 11
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 1:25:00 PM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	352	mg/L		5	SM 2320B	02/20/2012 2036	MZ
Alkalinity, Bicarbonate as HCO3	393	mg/L		5	SM 2320B	02/20/2012 2036	MZ
Alkalinity, Carbonate as CO3	18	mg/L		5	SM 2320B	02/20/2012 2036	MZ
Chloride	318	mg/L		1	EPA 300.0	02/20/2012 1532	AMB
Fluoride	0.8	mg/L		0.1	SM 4500FC	02/20/2012 2036	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1327	MB
Sulfate	107	mg/L		1	EPA 300.0	02/17/2012 2057	AMB
Calcium	6	mg/L		1	EPA 200.7	02/17/2012 1349	DG
Magnesium	1	mg/L		1	EPA 200.7	02/17/2012 1349	DG
Potassium	28	mg/L		1	EPA 200.7	02/17/2012 1349	DG
Sodium	439	mg/L		1	EPA 200.7	02/17/2012 1349	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	02/27/2012 1033	MEL
Silica as SiO2	13	mg/L		1	EPA 200.7	02/17/2012 1349	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	02/20/2012 2036	MZ
Electrical Conductivity	2060	µmhos/cm		1	SM 2510B	02/20/2012 2036	MZ
Total Dissolved Solids (180)	1110	mg/L		10	SM 2540	02/17/2012 1359	ARF
Data Quality							
Cation Sum	20.22	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	18.50	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	4.45	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	1120	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.99	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-010
ClientSample ID: Monitor 11
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 1:25:00 PM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	02/17/2012 1349	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	02/16/2012 2047	MS
Barium	ND	mg/L		0.1	EPA 200.8	02/16/2012 2047	MS
Boron	1.3	mg/L		0.1	EPA 200.7	02/17/2012 1349	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2047	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1349	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2047	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1349	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2047	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1349	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 1016	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2047	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1349	DG
Selenium	0.022	mg/L		0.001	EPA 200.8	02/16/2012 2047	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	02/16/2012 2047	MS
Uranium Activity	0.5	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	02/16/2012 2047	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1349	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1711	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	03/06/2012 851	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/06/2012 851	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1315	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1315	SH
Radium 226	0.2	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/29/2012 815	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/29/2012 815	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-010
ClientSample ID: Monitor 11
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 1:25:00 PM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	03/06/2012 1640	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	03/06/2012 1640	SH
Polonium 210	ND	pCi/L		1	OTW01	03/02/2012 1300	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/02/2012 1300	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	03/01/2012 1519	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	03/01/2012 1519	SH
Thorium 230	ND	pCi/L		0.2	ACW10	03/02/2012 908	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	03/02/2012 908	WL

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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-011
ClientSample ID: CP10-2010-1
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 9:15:00 AM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	281	mg/L		5	SM 2320B	02/20/2012 2047	MZ
Alkalinity, Bicarbonate as HCO3	286	mg/L		5	SM 2320B	02/20/2012 2047	MZ
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	02/20/2012 2047	MZ
Chloride	563	mg/L		1	EPA 300.0	02/29/2012 2208	AMB
Fluoride	0.8	mg/L		0.1	SM 4500FC	02/20/2012 2047	MZ
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	02/17/2012 1329	MB
Sulfate	76	mg/L		1	EPA 300.0	02/29/2012 2208	AMB
Calcium	10	mg/L		1	EPA 200.7	03/01/2012 1827	DG
Magnesium	ND	mg/L		1	EPA 200.7	03/01/2012 1827	DG
Potassium	40	mg/L		1	EPA 200.7	03/01/2012 1827	DG
Sodium	488	mg/L		1	EPA 200.7	03/01/2012 1827	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	02/27/2012 1034	MEL
Silica as SiO2	17	mg/L		1	EPA 200.7	02/17/2012 1352	DG
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	02/20/2012 2047	MZ
Electrical Conductivity	2360	µmhos/cm		1	SM 2510B	02/20/2012 2047	MZ
Total Dissolved Solids (180)	1260	mg/L		10	SM 2540	02/17/2012 1400	ARF
Data Quality							
Cation Sum	22.75	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Anion Sum	23.12	meq/L		0.01	SM 1030E	03/27/2012 1331	WN
Cation-Anion Balance (± 5%)	0.80	%		0.01	SM 1030E	03/27/2012 1331	WN
Solids, Total Dissolved (Calc)	1360	mg/L		10	SM 1030E	03/27/2012 1331	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.93	dec. %		0.01	Calculation	03/27/2012 1333	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 3/26/2012
Report ID: S1202246001

ProjectName: Marsland Chadron Well Sampling
Lab ID: S1202246-011
ClientSample ID: CP10-2010-1
COC: 143865

WorkOrder: S1202246
CollectionDate: 2/13/2012 9:15:00 AM
DateReceived: 2/16/2012 10:36:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.4	mg/L		0.1	EPA 200.7	02/17/2012 1352	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	02/16/2012 2106	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/16/2012 2106	MS
Boron	1.2	mg/L		0.1	EPA 200.7	02/17/2012 1352	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	02/16/2012 2106	MS
Chromium	ND	mg/L		0.05	EPA 200.7	02/17/2012 1352	DG
Copper	ND	mg/L		0.1	EPA 200.8	02/16/2012 2106	MS
Iron	ND	mg/L		0.05	EPA 200.7	02/17/2012 1352	DG
Lead	ND	mg/L		0.05	EPA 200.8	02/16/2012 2106	MS
Manganese	ND	mg/L		0.01	EPA 200.7	02/17/2012 1352	DG
Mercury	ND	mg/L		0.001	EPA 245.1	02/21/2012 1017	BK
Molybdenum	ND	mg/L		0.1	EPA 200.8	02/16/2012 2106	MS
Nickel	ND	mg/L		0.05	EPA 200.7	02/17/2012 1352	DG
Selenium	0.067	mg/L		0.001	EPA 200.8	02/16/2012 2106	MS
Uranium	0.0091	mg/L		0.0003	EPA 200.8	02/16/2012 2106	MS
Uranium Activity	6.2	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Vanadium	0.05	mg/L		0.02	EPA 200.8	02/16/2012 2106	MS
Zinc	ND	mg/L		0.01	EPA 200.7	02/17/2012 1352	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/15/2012 1716	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	03/27/2012 1333	WN
Radionuclides - Dissolved							
Lead 210	3.6	pCi/L		1	OTW01	03/06/2012 851	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	03/06/2012 851	SH
Polonium 210	ND	pCi/L		1	OTW01	03/01/2012 1433	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	03/01/2012 1433	SH
Radium 226	27.5	pCi/L		0.2	SM 7500-Ra B	02/29/2012 1518	SH
Radium 226 Precision (±)	0.6	pCi/L			SM 7500-Ra B	02/29/2012 1518	SH
Thorium 230	ND	pCi/L		0.2	ACW10	02/29/2012 815	WL
Thorium 230 Precision (±)	NA	pCi/L			ACW10	02/29/2012 815	WL

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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-001
Client Sample ID: Monitor 1

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	411	mg/L		5		A2320 B	06/07/12 01:17 / jba
Carbonate as CO3	7	mg/L		5		A2320 B	06/07/12 01:17 / jba
Bicarbonate as HCO3	488	mg/L		5		A2320 B	06/07/12 01:17 / jba
Calcium	5	mg/L		1		E200.8	06/19/12 14:56 / cp
Chloride	170	mg/L		1		E300.0	06/12/12 13:56 / wc
Fluoride	0.6	mg/L		0.1		A4500-F C	06/07/12 10:35 / jba
Magnesium	1	mg/L		1		E200.8	06/19/12 14:56 / cp
Nitrogen, Ammonia as N	0.22	mg/L		0.05		A4500-NH3 G	06/08/12 16:17 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 16:42 / ljl
Potassium	8	mg/L		1		E200.8	06/19/12 14:56 / cp
Silica	15.2	mg/L		0.2		E200.7	06/26/12 13:57 / sf
Sodium	307	mg/L		1		E200.8	06/19/12 14:56 / cp
Sulfate	60	mg/L	D	4		E300.0	06/12/12 13:56 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1410	umhos/cm		1		A2510 B	06/07/12 13:37 / ab
pH	8.29	s.u.	H	0.01		A4500-H B	06/07/12 13:37 / ab
Solids, Total Dissolved TDS @ 180 C	853	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/12/12 23:21 / cp
Arsenic	0.002	mg/L		0.001		E200.8	06/12/12 23:21 / cp
Barium	ND	mg/L		0.1		E200.8	06/12/12 23:21 / cp
Boron	1.4	mg/L		0.1		E200.7	06/26/12 13:57 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:21 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:21 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:21 / cp
Iron	0.03	mg/L		0.03		E200.8	06/19/12 14:56 / cp
Lead	0.001	mg/L		0.001		E200.8	06/12/12 23:21 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:21 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 14:56 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:21 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:21 / cp
Selenium	0.002	mg/L		0.001		E200.8	06/12/12 23:21 / cp
Uranium	0.0062	mg/L		0.0003		E200.8	06/12/12 23:21 / cp
Uranium, Activity	4.2E-09	uCi/mL		2.0E-10		E200.8	06/12/12 23:21 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 14:56 / cp
Zinc	0.03	mg/L		0.01		E200.8	06/12/12 23:21 / cp
METALS - SUSPENDED							
Uranium	0.0295	mg/L		0.0003		E200.8	06/14/12 21:55 / cp
Uranium, Activity	2.0E-08	uCi/mL		2.0E-10		E200.8	06/14/12 21:55 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-001
Client Sample ID: Monitor 1

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	39.6	pCi/L		1.1		E909.0	06/23/12 08:41 / eli-cs
Lead 210 precision (±)	1.2	pCi/L				E909.0	06/23/12 08:41 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	06/23/12 08:41 / eli-cs
Polonium 210	4.9	pCi/L		0.6		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	1.8	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	17	pCi/L		0.17		E903.0	06/19/12 11:31 / trs
Radium 226 precision (±)	0.83	pCi/L				E903.0	06/19/12 11:31 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 11:31 / trs
Thorium 230	0.4	pCi/L		0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	44.9	pCi/L		0.8		E909.0	06/29/12 01:20 / eli-cs
Lead 210 precision (±)	1	pCi/L				E909.0	06/29/12 01:20 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 01:20 / eli-cs
Polonium 210	14.8	pCi/L		0.6		E912.0	06/18/12 13:03 / dmf
Polonium 210 precision (±)	5.4	pCi/L				E912.0	06/18/12 13:03 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	06/18/12 13:03 / dmf
Radium 226	17	pCi/L		0.12		E903.0	06/25/12 08:24 / lbb
Radium 226 precision (±)	0.72	pCi/L				E903.0	06/25/12 08:24 / lbb
Radium 226 MDC	0.12	pCi/L				E903.0	06/25/12 08:24 / lbb
Thorium 230	10.1	pCi/L		0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	1.5	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.19	%				A1030 E	06/22/12 06:53 / kbh
Anions	14.3	meq/L				A1030 E	06/22/12 06:53 / kbh
Cations	13.9	meq/L				A1030 E	06/22/12 06:53 / kbh
Solids, Total Dissolved Calculated	800	mg/L				A1030 E	06/22/12 06:53 / kbh
TDS Balance (0.80 - 1.20)	1.07					A1030 E	06/22/12 06:53 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-002
Client Sample ID: Monitor 2

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	398	mg/L		5		A2320 B	06/07/12 01:25 / jba
Carbonate as CO3	5	mg/L		5		A2320 B	06/07/12 01:25 / jba
Bicarbonate as HCO3	475	mg/L		5		A2320 B	06/07/12 01:25 / jba
Calcium	5	mg/L		1		E200.8	06/19/12 15:00 / cp
Chloride	161	mg/L		1		E300.0	06/12/12 14:10 / wc
Fluoride	0.6	mg/L		0.1		A4500-F C	06/07/12 10:38 / jba
Magnesium	1	mg/L		1		E200.8	06/19/12 15:00 / cp
Nitrogen, Ammonia as N	0.24	mg/L		0.05		A4500-NH3 G	06/08/12 16:19 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 16:45 / ljl
Potassium	8	mg/L		1		E200.8	06/19/12 15:00 / cp
Silica	17.2	mg/L		0.2		E200.7	06/26/12 14:01 / sf
Sodium	298	mg/L		1		E200.8	06/19/12 15:00 / cp
Sulfate	56	mg/L	D	4		E300.0	06/12/12 14:10 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1380	umhos/cm		1		A2510 B	06/07/12 13:40 / ab
pH	8.29	s.u.	H	0.01		A4500-H B	06/07/12 13:40 / ab
Solids, Total Dissolved TDS @ 180 C	818	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/12/12 23:23 / cp
Arsenic	0.002	mg/L		0.001		E200.8	06/12/12 23:23 / cp
Barium	ND	mg/L		0.1		E200.8	06/12/12 23:23 / cp
Boron	1.5	mg/L		0.1		E200.7	06/26/12 14:01 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:23 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:23 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:23 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:00 / cp
Lead	ND	mg/L		0.001		E200.8	06/12/12 23:23 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:23 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:00 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:23 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:23 / cp
Selenium	0.002	mg/L		0.001		E200.8	06/12/12 23:23 / cp
Uranium	0.0021	mg/L		0.0003		E200.8	06/12/12 23:23 / cp
Uranium, Activity	1.4E-09	uCi/mL		2.0E-10		E200.8	06/12/12 23:23 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:00 / cp
Zinc	0.05	mg/L		0.01		E200.8	06/12/12 23:23 / cp
METALS - SUSPENDED							
Uranium	0.0003	mg/L		0.0003		E200.8	06/14/12 22:15 / cp
Uranium, Activity	2.1E-10	uCi/mL		2.0E-10		E200.8	06/14/12 22:15 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-002
Client Sample ID: Monitor 2

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/26/12 12:33 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/26/12 12:33 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/26/12 12:33 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	1.9	pCi/L		0.16		E903.0	06/19/12 11:31 / trs
Radium 226 precision (±)	0.28	pCi/L				E903.0	06/19/12 11:31 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	06/19/12 11:31 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/29/12 03:25 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/29/12 03:25 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 03:25 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	06/18/12 13:03 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	06/18/12 13:03 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	06/18/12 13:03 / dmf
Radium 226	0.32	pCi/L		0.13		E903.0	06/25/12 08:24 / lbb
Radium 226 precision (±)	0.13	pCi/L				E903.0	06/25/12 08:24 / lbb
Radium 226 MDC	0.13	pCi/L				E903.0	06/25/12 08:24 / lbb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.691	%				A1030 E	06/22/12 06:53 / kbh
Anions	13.7	meq/L				A1030 E	06/22/12 06:53 / kbh
Cations	13.6	meq/L				A1030 E	06/22/12 06:53 / kbh
Solids, Total Dissolved Calculated	770	mg/L				A1030 E	06/22/12 06:53 / kbh
TDS Balance (0.80 - 1.20)	1.06					A1030 E	06/22/12 06:53 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-003
Client Sample ID: Monitor 4A

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	360	mg/L		5		A2320 B	06/07/12 01:34 / jba
Carbonate as CO3	17	mg/L		5		A2320 B	06/07/12 01:34 / jba
Bicarbonate as HCO3	405	mg/L		5		A2320 B	06/07/12 01:34 / jba
Calcium	5	mg/L		1		E200.8	06/19/12 15:05 / cp
Chloride	209	mg/L		1		E300.0	06/12/12 14:24 / wc
Fluoride	0.8	mg/L		0.1		A4500-F C	06/07/12 10:41 / jba
Magnesium	1	mg/L		1		E200.8	06/19/12 15:05 / cp
Nitrogen, Ammonia as N	0.33	mg/L		0.05		A4500-NH3 G	06/08/12 16:21 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 16:47 / ljl
Potassium	16	mg/L		1		E200.8	06/19/12 15:05 / cp
Silica	18.1	mg/L		0.2		E200.7	06/26/12 14:05 / sf
Sodium	340	mg/L		1		E200.8	06/19/12 15:05 / cp
Sulfate	115	mg/L	D	4		E300.0	06/12/12 14:24 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1580	umhos/cm		1		A2510 B	06/07/12 13:42 / ab
pH	8.78	s.u.	H	0.01		A4500-H B	06/07/12 13:42 / ab
Solids, Total Dissolved TDS @ 180 C	951	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/12/12 23:26 / cp
Arsenic	0.003	mg/L		0.001		E200.8	06/12/12 23:26 / cp
Barium	ND	mg/L		0.1		E200.8	06/12/12 23:26 / cp
Boron	1.4	mg/L		0.1		E200.7	06/26/12 14:05 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:26 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:26 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:26 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:05 / cp
Lead	ND	mg/L		0.001		E200.8	06/12/12 23:26 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:26 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:05 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:26 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:26 / cp
Selenium	0.002	mg/L		0.001		E200.8	06/12/12 23:26 / cp
Uranium	0.0475	mg/L		0.0003		E200.8	06/12/12 23:26 / cp
Uranium, Activity	3.2E-08	uCi/mL		2.0E-10		E200.8	06/12/12 23:26 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:05 / cp
Zinc	ND	mg/L		0.01		E200.8	06/12/12 23:26 / cp
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		E200.8	06/14/12 22:18 / cp
Uranium, Activity	3.6E-10	uCi/mL		2.0E-10		E200.8	06/14/12 22:18 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-003
Client Sample ID: Monitor 4A

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	604	pCi/L		1.1		E909.0	06/23/12 13:11 / eli-cs
Lead 210 precision (±)	4.1	pCi/L				E909.0	06/23/12 13:11 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	06/23/12 13:11 / eli-cs
Polonium 210	104	pCi/L		0.5		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	21.1	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	390	pCi/L		0.17		E903.0	06/19/12 11:31 / trs
Radium 226 precision (±)	4.0	pCi/L				E903.0	06/19/12 11:31 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 11:31 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	17.6	pCi/L		0.8		E909.0	06/29/12 05:30 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	06/29/12 05:30 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 05:30 / eli-cs
Polonium 210	4.5	pCi/L		0.3		E912.0	06/18/12 13:03 / dmf
Polonium 210 precision (±)	1.6	pCi/L				E912.0	06/18/12 13:03 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	06/18/12 13:03 / dmf
Radium 226	0.32	pCi/L		0.11		E903.0	06/25/12 08:24 / lbb
Radium 226 precision (±)	0.11	pCi/L				E903.0	06/25/12 08:24 / lbb
Radium 226 MDC	0.11	pCi/L				E903.0	06/25/12 08:24 / lbb
Thorium 230	0.4	pCi/L		0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.175	%				A1030 E	06/22/12 06:54 / kbh
Anions	15.5	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	15.6	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	900	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.05					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-004
Client Sample ID: Monitor 5

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	260	mg/L		5		A2320 B	06/07/12 02:05 / jba
Carbonate as CO3	43	mg/L		5		A2320 B	06/07/12 02:05 / jba
Bicarbonate as HCO3	231	mg/L		5		A2320 B	06/07/12 02:05 / jba
Calcium	7	mg/L		1		E200.8	06/19/12 15:09 / cp
Chloride	254	mg/L	D	2		E300.0	06/13/12 21:42 / wc
Fluoride	0.7	mg/L		0.1		A4500-F C	06/07/12 10:43 / jba
Magnesium	2	mg/L		1		E200.8	06/19/12 15:09 / cp
Nitrogen, Ammonia as N	0.41	mg/L		0.05		A4500-NH3 G	06/08/12 16:23 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 16:50 / ljl
Potassium	27	mg/L		1		E200.8	06/19/12 15:09 / cp
Silica	22.9	mg/L		0.2		E200.7	06/26/12 14:09 / sf
Sodium	421	mg/L		1		E200.8	06/19/12 15:09 / cp
Sulfate	308	mg/L	D	4		E300.0	06/12/12 14:39 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2010	umhos/cm		1		A2510 B	06/07/12 13:45 / ab
pH	9.48	s.u.	H	0.01		A4500-H B	06/07/12 13:45 / ab
Solids, Total Dissolved TDS @ 180 C	1270	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	0.1	mg/L		0.1		E200.8	06/12/12 23:29 / cp
Arsenic	0.002	mg/L		0.001		E200.8	06/12/12 23:29 / cp
Barium	ND	mg/L		0.1		E200.8	06/12/12 23:29 / cp
Boron	1.3	mg/L		0.1		E200.7	06/26/12 14:09 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:29 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:29 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:29 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:09 / cp
Lead	ND	mg/L		0.001		E200.8	06/12/12 23:29 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:29 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:09 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:29 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:29 / cp
Selenium	0.003	mg/L		0.001		E200.8	06/12/12 23:29 / cp
Uranium	0.0006	mg/L		0.0003		E200.8	06/12/12 23:29 / cp
Uranium, Activity	3.9E-10	uCi/mL		2.0E-10		E200.8	06/12/12 23:29 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:09 / cp
Zinc	ND	mg/L		0.01		E200.8	06/12/12 23:29 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:20 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:20 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-004
Client Sample ID: Monitor 5

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/26/12 15:53 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/26/12 15:53 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/26/12 15:53 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	3.4	pCi/L		0.17		E903.0	06/19/12 11:31 / trs
Radium 226 precision (±)	0.39	pCi/L				E903.0	06/19/12 11:31 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 11:31 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/29/12 07:35 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	06/29/12 07:35 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 07:35 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	06/18/12 13:03 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	06/18/12 13:03 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	06/18/12 13:03 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.07	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.13	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.17	%				A1030 E	06/22/12 06:54 / kbh
Anions	19.1	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	19.6	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	1200	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.07					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-005
Client Sample ID: Monitor 6

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	301	mg/L		5		A2320 B	06/07/12 02:22 / jba
Carbonate as CO3	16	mg/L		5		A2320 B	06/07/12 02:22 / jba
Bicarbonate as HCO3	334	mg/L		5		A2320 B	06/07/12 02:22 / jba
Calcium	21	mg/L		1		E200.8	06/19/12 15:14 / cp
Chloride	332	mg/L	D	5		E300.0	06/13/12 21:57 / wc
Fluoride	0.8	mg/L		0.1		A4500-F C	06/07/12 10:47 / jba
Magnesium	1	mg/L		1		E200.8	06/19/12 15:14 / cp
Nitrogen, Ammonia as N	0.43	mg/L		0.05		A4500-NH3 G	06/08/12 16:25 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 16:52 / ljl
Potassium	18	mg/L		1		E200.8	06/19/12 15:14 / cp
Silica	16.9	mg/L		0.2		E200.7	06/26/12 14:25 / sf
Sodium	354	mg/L		1		E200.8	06/19/12 15:14 / cp
Sulfate	55	mg/L	D	4		E300.0	06/12/12 15:22 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1750	umhos/cm		1		A2510 B	06/07/12 13:50 / ab
pH	8.89	s.u.	H	0.01		A4500-H B	06/07/12 13:50 / ab
Solids, Total Dissolved TDS @ 180 C	995	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/12/12 23:32 / cp
Arsenic	0.001	mg/L		0.001		E200.8	06/12/12 23:32 / cp
Barium	0.2	mg/L		0.1		E200.8	06/12/12 23:32 / cp
Boron	1.4	mg/L		0.1		E200.7	06/26/12 14:25 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:32 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:32 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:32 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:14 / cp
Lead	ND	mg/L		0.001		E200.8	06/12/12 23:32 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:32 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:14 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:32 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:32 / cp
Selenium	0.003	mg/L		0.001		E200.8	06/12/12 23:32 / cp
Uranium	0.0011	mg/L		0.0003		E200.8	06/12/12 23:32 / cp
Uranium, Activity	7.3E-10	uCi/mL		2.0E-10		E200.8	06/12/12 23:32 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:14 / cp
Zinc	ND	mg/L		0.01		E200.8	06/12/12 23:32 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:23 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:23 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-005
Client Sample ID: Monitor 6

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/26/12 19:14 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/26/12 19:14 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/26/12 19:14 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.9	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	9.0	pCi/L		0.17		E903.0	06/19/12 11:31 / trs
Radium 226 precision (±)	0.61	pCi/L				E903.0	06/19/12 11:31 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 11:31 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/29/12 09:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	06/29/12 09:40 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 09:40 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	06/18/12 13:03 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	06/18/12 13:03 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/18/12 13:03 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.09	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.12	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.53	%				A1030 E	06/22/12 06:54 / kbh
Anions	16.6	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	17.1	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	960	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.03					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-006
Client Sample ID: Monitor 7

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	301	mg/L		5		A2320 B	06/07/12 02:38 / jba
Carbonate as CO3	14	mg/L		5		A2320 B	06/07/12 02:38 / jba
Bicarbonate as HCO3	338	mg/L		5		A2320 B	06/07/12 02:38 / jba
Calcium	10	mg/L		1		E200.8	06/19/12 15:19 / cp
Chloride	188	mg/L		1		E300.0	06/12/12 16:05 / wc
Fluoride	0.8	mg/L		0.1		A4500-F C	06/07/12 10:49 / jba
Magnesium	2	mg/L		1		E200.8	06/19/12 15:19 / cp
Nitrogen, Ammonia as N	0.29	mg/L		0.05		A4500-NH3 G	06/08/12 16:27 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 16:55 / ljl
Potassium	15	mg/L		1		E200.8	06/19/12 15:19 / cp
Silica	18.5	mg/L		0.2		E200.7	06/26/12 14:29 / sf
Sodium	386	mg/L		1		E200.8	06/19/12 15:19 / cp
Sulfate	306	mg/L	D	4		E300.0	06/12/12 16:05 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1810	umhos/cm		1		A2510 B	06/07/12 13:53 / ab
pH	8.76	s.u.	H	0.01		A4500-H B	06/07/12 13:53 / ab
Solids, Total Dissolved TDS @ 180 C	1130	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/12/12 23:35 / cp
Arsenic	0.002	mg/L		0.001		E200.8	06/12/12 23:35 / cp
Barium	ND	mg/L		0.1		E200.8	06/12/12 23:35 / cp
Boron	1.5	mg/L		0.1		E200.7	06/26/12 14:29 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:35 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:35 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:35 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:19 / cp
Lead	ND	mg/L		0.001		E200.8	06/12/12 23:35 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:35 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:19 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:35 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:35 / cp
Selenium	0.002	mg/L		0.001		E200.8	06/12/12 23:35 / cp
Uranium	ND	mg/L		0.0003		E200.8	06/12/12 23:35 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/12/12 23:35 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:19 / cp
Zinc	ND	mg/L		0.01		E200.8	06/12/12 23:35 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:25 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:25 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-006
Client Sample ID: Monitor 7

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/26/12 22:34 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/26/12 22:34 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/26/12 22:34 / eli-cs
Polonium 210	1.6	pCi/L		0.6		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.9	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	0.53	pCi/L		0.17		E903.0	06/19/12 11:31 / trs
Radium 226 precision (±)	0.17	pCi/L				E903.0	06/19/12 11:31 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 11:31 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/29/12 11:45 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/29/12 11:45 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 11:45 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	06/18/12 13:03 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	06/18/12 13:03 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	06/18/12 13:03 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.08	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.13	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.403	%				A1030 E	06/22/12 06:54 / kbh
Anions	17.7	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	17.9	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	1100	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.04					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-007
Client Sample ID: Monitor 8

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	282	mg/L		5		A2320 B	06/07/12 02:47 / jba
Carbonate as CO3	10	mg/L		5		A2320 B	06/07/12 02:47 / jba
Bicarbonate as HCO3	323	mg/L		5		A2320 B	06/07/12 02:47 / jba
Calcium	12	mg/L		1		E200.8	06/19/12 15:23 / cp
Chloride	177	mg/L		1		E300.0	06/12/12 16:20 / wc
Fluoride	0.7	mg/L		0.1		A4500-F C	06/07/12 10:53 / jba
Magnesium	3	mg/L		1		E200.8	06/19/12 15:23 / cp
Nitrogen, Ammonia as N	0.32	mg/L		0.05		A4500-NH3 G	06/08/12 16:29 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 16:57 / ljl
Potassium	17	mg/L		1		E200.8	06/19/12 15:23 / cp
Silica	18.5	mg/L		0.2		E200.7	06/26/12 14:33 / sf
Sodium	425	mg/L		1		E200.8	06/19/12 15:23 / cp
Sulfate	388	mg/L	D	4		E300.0	06/12/12 16:20 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1950	umhos/cm		1		A2510 B	06/07/12 13:56 / ab
pH	8.65	s.u.	H	0.01		A4500-H B	06/07/12 13:56 / ab
Solids, Total Dissolved TDS @ 180 C	1220	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/12/12 23:49 / cp
Arsenic	0.001	mg/L		0.001		E200.8	06/12/12 23:49 / cp
Barium	ND	mg/L		0.1		E200.8	06/12/12 23:49 / cp
Boron	1.4	mg/L		0.1		E200.7	06/26/12 14:33 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:49 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:49 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:49 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:23 / cp
Lead	ND	mg/L		0.001		E200.8	06/12/12 23:49 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:49 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:23 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:49 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:49 / cp
Selenium	0.002	mg/L		0.001		E200.8	06/12/12 23:49 / cp
Uranium	ND	mg/L		0.0003		E200.8	06/12/12 23:49 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/12/12 23:49 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:23 / cp
Zinc	ND	mg/L		0.01		E200.8	06/12/12 23:49 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:28 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:28 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-007
Client Sample ID: Monitor 8

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/27/12 01:54 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/27/12 01:54 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/27/12 01:54 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	2.1	pCi/L		0.17		E903.0	06/19/12 13:14 / trs
Radium 226 precision (±)	0.31	pCi/L				E903.0	06/19/12 13:14 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 13:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/29/12 13:50 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/29/12 13:50 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 13:50 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	06/18/12 14:59 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	06/18/12 14:59 / dmf
Polonium 210 MDC	0.4	pCi/L				E912.0	06/18/12 14:59 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.09	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.13	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.74	%				A1030 E	06/22/12 06:54 / kbh
Anions	18.7	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	19.8	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	1200	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.03					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
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QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-008
Client Sample ID: Monitor 9

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	343	mg/L		5		A2320 B	06/07/12 02:55 / jba
Carbonate as CO3	16	mg/L		5		A2320 B	06/07/12 02:55 / jba
Bicarbonate as HCO3	387	mg/L		5		A2320 B	06/07/12 02:55 / jba
Calcium	4	mg/L		1		E200.8	06/19/12 15:46 / cp
Chloride	232	mg/L		1		E300.0	06/12/12 16:34 / wc
Fluoride	0.8	mg/L		0.1		A4500-F C	06/07/12 10:57 / jba
Magnesium	ND	mg/L		1		E200.8	06/19/12 15:46 / cp
Nitrogen, Ammonia as N	0.34	mg/L		0.05		A4500-NH3 G	06/09/12 12:56 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 17:00 / ljl
Potassium	14	mg/L		1		E200.8	06/19/12 15:46 / cp
Silica	17.3	mg/L		0.2		E200.7	06/26/12 14:37 / sf
Sodium	341	mg/L		1		E200.8	06/19/12 15:46 / cp
Sulfate	95	mg/L	D	4		E300.0	06/12/12 16:34 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1570	umhos/cm		1		A2510 B	06/07/12 13:58 / ab
pH	8.75	s.u.	H	0.01		A4500-H B	06/07/12 13:58 / ab
Solids, Total Dissolved TDS @ 180 C	910	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/12/12 23:52 / cp
Arsenic	0.001	mg/L		0.001		E200.8	06/12/12 23:52 / cp
Barium	ND	mg/L		0.1		E200.8	06/12/12 23:52 / cp
Boron	1.3	mg/L		0.1		E200.7	06/26/12 14:37 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/12/12 23:52 / cp
Chromium	ND	mg/L		0.05		E200.8	06/12/12 23:52 / cp
Copper	ND	mg/L		0.01		E200.8	06/12/12 23:52 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:46 / cp
Lead	ND	mg/L		0.001		E200.8	06/12/12 23:52 / cp
Manganese	ND	mg/L		0.01		E200.8	06/12/12 23:52 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:46 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/12/12 23:52 / cp
Nickel	ND	mg/L		0.05		E200.8	06/12/12 23:52 / cp
Selenium	0.003	mg/L		0.001		E200.8	06/12/12 23:52 / cp
Uranium	0.0021	mg/L		0.0003		E200.8	06/12/12 23:52 / cp
Uranium, Activity	1.4E-09	uCi/mL		2.0E-10		E200.8	06/12/12 23:52 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:46 / cp
Zinc	ND	mg/L		0.01		E200.8	06/12/12 23:52 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:31 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:31 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-008
Client Sample ID: Monitor 9

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/27/12 05:14 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/27/12 05:14 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/27/12 05:14 / eli-cs
Polonium 210	0.8	pCi/L		0.5		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.6	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	1.5	pCi/L		0.17		E903.0	06/19/12 13:14 / trs
Radium 226 precision (±)	0.26	pCi/L				E903.0	06/19/12 13:14 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 13:14 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	06/29/12 15:55 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/29/12 15:55 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	06/29/12 15:55 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	06/18/12 14:58 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	06/18/12 14:58 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	06/18/12 14:58 / dmf
Radium 226	<0.11	pCi/L	U	0.11		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.07	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.11	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.00470	%				A1030 E	06/22/12 06:54 / kbh
Anions	15.5	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	15.5	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	890	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.02					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-009
Client Sample ID: Monitor 10

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	314	mg/L		5		A2320 B	06/07/12 03:03 / jba
Carbonate as CO3	11	mg/L		5		A2320 B	06/07/12 03:03 / jba
Bicarbonate as HCO3	360	mg/L		5		A2320 B	06/07/12 03:03 / jba
Calcium	8	mg/L		1		E200.8	06/19/12 15:51 / cp
Chloride	141	mg/L		1		E300.0	06/12/12 16:49 / wc
Fluoride	0.8	mg/L		0.1		A4500-F C	06/07/12 11:17 / jba
Magnesium	2	mg/L		1		E200.8	06/19/12 15:51 / cp
Nitrogen, Ammonia as N	0.38	mg/L		0.05		A4500-NH3 G	06/09/12 13:02 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 17:07 / ljl
Potassium	11	mg/L		1		E200.8	06/19/12 15:51 / cp
Silica	18.0	mg/L		0.2		E200.7	06/26/12 14:41 / sf
Sodium	392	mg/L		1		E200.8	06/19/12 15:51 / cp
Sulfate	347	mg/L	D	4		E300.0	06/12/12 16:49 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1770	umhos/cm		1		A2510 B	06/07/12 14:01 / ab
pH	8.54	s.u.	H	0.01		A4500-H B	06/07/12 14:01 / ab
Solids, Total Dissolved TDS @ 180 C	1120	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/13/12 00:03 / cp
Arsenic	0.001	mg/L		0.001		E200.8	06/13/12 00:03 / cp
Barium	ND	mg/L		0.1		E200.8	06/13/12 00:03 / cp
Boron	1.4	mg/L		0.1		E200.7	06/26/12 14:41 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/13/12 00:03 / cp
Chromium	ND	mg/L		0.05		E200.8	06/13/12 00:03 / cp
Copper	ND	mg/L		0.01		E200.8	06/13/12 00:03 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:51 / cp
Lead	ND	mg/L		0.001		E200.8	06/13/12 00:03 / cp
Manganese	ND	mg/L		0.01		E200.8	06/13/12 00:03 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:51 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/13/12 00:03 / cp
Nickel	ND	mg/L		0.05		E200.8	06/13/12 00:03 / cp
Selenium	0.001	mg/L		0.001		E200.8	06/13/12 00:03 / cp
Uranium	ND	mg/L		0.0003		E200.8	06/13/12 00:03 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/13/12 00:03 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:51 / cp
Zinc	0.02	mg/L		0.01		E200.8	06/13/12 00:03 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:33 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:33 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-009
Client Sample ID: Monitor 10

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/27/12 12:06 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/27/12 12:06 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/27/12 12:06 / eli-cs
Polonium 210	2.1	pCi/L		0.5		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	1.0	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	6.6	pCi/L		0.17		E903.0	06/19/12 13:14 / trs
Radium 226 precision (±)	0.53	pCi/L				E903.0	06/19/12 13:14 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 13:14 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/29/12 18:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/29/12 18:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 18:00 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	06/18/12 14:58 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	06/18/12 14:58 / dmf
Polonium 210 MDC	0.4	pCi/L				E912.0	06/18/12 14:58 / dmf
Radium 226	0.11	pCi/L		0.11		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.08	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.11	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	0.2	pCi/L		0.08		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.08	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.40	%				A1030 E	06/22/12 06:54 / kbh
Anions	17.5	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	18.0	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	1100	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.03					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-010
Client Sample ID: Monitor 11

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	365	mg/L		5		A2320 B	06/07/12 03:13 / jba
Carbonate as CO3	21	mg/L		5		A2320 B	06/07/12 03:13 / jba
Bicarbonate as HCO3	403	mg/L		5		A2320 B	06/07/12 03:13 / jba
Calcium	8	mg/L		1		E200.8	06/19/12 15:55 / cp
Chloride	292	mg/L	D	2		E300.0	06/16/12 00:59 / wc
Fluoride	0.7	mg/L		0.1		A4500-F C	06/07/12 11:26 / jba
Magnesium	2	mg/L		1		E200.8	06/19/12 15:55 / cp
Nitrogen, Ammonia as N	0.32	mg/L		0.05		A4500-NH3 G	06/09/12 13:04 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 17:15 / ljl
Potassium	21	mg/L		1		E200.8	06/19/12 15:55 / cp
Silica	14.7	mg/L		0.2		E200.7	06/26/12 14:54 / sf
Sodium	403	mg/L		1		E200.8	06/19/12 15:55 / cp
Sulfate	131	mg/L	D	4		E300.0	06/12/12 17:03 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1890	umhos/cm		1		A2510 B	06/07/12 14:04 / ab
pH	8.85	s.u.	H	0.01		A4500-H B	06/07/12 14:04 / ab
Solids, Total Dissolved TDS @ 180 C	1130	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/13/12 00:06 / cp
Arsenic	0.003	mg/L		0.001		E200.8	06/13/12 00:06 / cp
Barium	ND	mg/L		0.1		E200.8	06/13/12 00:06 / cp
Boron	1.4	mg/L		0.1		E200.7	06/26/12 14:54 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/13/12 00:06 / cp
Chromium	ND	mg/L		0.05		E200.8	06/13/12 00:06 / cp
Copper	ND	mg/L		0.01		E200.8	06/13/12 00:06 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 15:55 / cp
Lead	ND	mg/L		0.001		E200.8	06/13/12 00:06 / cp
Manganese	ND	mg/L		0.01		E200.8	06/13/12 00:06 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 15:55 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/13/12 00:06 / cp
Nickel	ND	mg/L		0.05		E200.8	06/13/12 00:06 / cp
Selenium	0.002	mg/L		0.001		E200.8	06/13/12 00:06 / cp
Uranium	0.0007	mg/L		0.0003		E200.8	06/13/12 00:06 / cp
Uranium, Activity	4.8E-10	uCi/mL		2.0E-10		E200.8	06/13/12 00:06 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 15:55 / cp
Zinc	ND	mg/L		0.01		E200.8	06/13/12 00:06 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:46 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:46 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-010
Client Sample ID: Monitor 11

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/27/12 15:26 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/27/12 15:26 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/27/12 15:26 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	2.4	pCi/L		0.17		E903.0	06/19/12 13:14 / trs
Radium 226 precision (±)	0.32	pCi/L				E903.0	06/19/12 13:14 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 13:14 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/29/12 20:05 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/29/12 20:05 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/29/12 20:05 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	06/18/12 14:58 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	06/18/12 14:58 / dmf
Polonium 210 MDC	0.4	pCi/L				E912.0	06/18/12 14:58 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.07	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.12	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.897	%				A1030 E	06/22/12 06:54 / kbh
Anions	18.3	meq/L				A1030 E	06/22/12 06:54 / kbh
Cations	18.6	meq/L				A1030 E	06/22/12 06:54 / kbh
Solids, Total Dissolved Calculated	1100	mg/L				A1030 E	06/22/12 06:54 / kbh
TDS Balance (0.80 - 1.20)	1.05					A1030 E	06/22/12 06:54 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-011
Client Sample ID: CPW 2010-1

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	281	mg/L		5		A2320 B	06/07/12 03:21 / jba
Carbonate as CO3	18	mg/L		5		A2320 B	06/07/12 03:21 / jba
Bicarbonate as HCO3	306	mg/L		5		A2320 B	06/07/12 03:21 / jba
Calcium	19	mg/L		1		E200.8	06/19/12 16:13 / cp
Chloride	368	mg/L	D	5		E300.0	06/13/12 22:25 / wc
Fluoride	0.8	mg/L		0.1		A4500-F C	06/07/12 11:29 / jba
Magnesium	ND	mg/L		1		E200.8	06/19/12 16:13 / cp
Nitrogen, Ammonia as N	0.49	mg/L		0.05		A4500-NH3 G	06/09/12 13:06 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/06/12 17:17 / ljl
Potassium	21	mg/L		1		E200.8	06/19/12 16:13 / cp
Silica	17.8	mg/L		0.2		E200.7	06/26/12 14:58 / sf
Sodium	393	mg/L		1		E200.8	06/19/12 16:13 / cp
Sulfate	88	mg/L	D	4		E300.0	06/12/12 17:17 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1890	umhos/cm		1		A2510 B	06/07/12 14:06 / ab
pH	8.98	s.u.	H	0.01		A4500-H B	06/07/12 14:06 / ab
Solids, Total Dissolved TDS @ 180 C	1090	mg/L		10		A2540 C	06/07/12 16:32 / ab
METALS - DISSOLVED							
Aluminum	0.3	mg/L		0.1		E200.8	06/13/12 00:09 / cp
Arsenic	ND	mg/L		0.001		E200.8	06/13/12 00:09 / cp
Barium	0.1	mg/L		0.1		E200.8	06/13/12 00:09 / cp
Boron	1.4	mg/L		0.1		E200.7	06/26/12 14:58 / sf
Cadmium	ND	mg/L		0.005		E200.8	06/13/12 00:09 / cp
Chromium	ND	mg/L		0.05		E200.8	06/13/12 00:09 / cp
Copper	ND	mg/L		0.01		E200.8	06/13/12 00:09 / cp
Iron	ND	mg/L		0.03		E200.8	06/19/12 16:13 / cp
Lead	ND	mg/L		0.001		E200.8	06/13/12 00:09 / cp
Manganese	ND	mg/L		0.01		E200.8	06/13/12 00:09 / cp
Mercury	ND	mg/L		0.001		E200.8	06/19/12 16:13 / cp
Molybdenum	ND	mg/L		0.1		E200.8	06/13/12 00:09 / cp
Nickel	ND	mg/L		0.05		E200.8	06/13/12 00:09 / cp
Selenium	0.002	mg/L		0.001		E200.8	06/13/12 00:09 / cp
Uranium	0.0090	mg/L		0.0003		E200.8	06/13/12 00:09 / cp
Uranium, Activity	6.1E-09	uCi/mL		2.0E-10		E200.8	06/13/12 00:09 / cp
Vanadium	ND	mg/L		0.1		E200.8	06/19/12 16:13 / cp
Zinc	ND	mg/L		0.01		E200.8	06/13/12 00:09 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/14/12 22:49 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/14/12 22:49 / cp

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Chadron Wells G-8 Samples
Lab ID: C12060209-011
Client Sample ID: CPW 2010-1

Report Date: 07/06/12
Collection Date: 06/04/12
DateReceived: 06/06/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	4.9	pCi/L		1.1		E909.0	06/24/12 09:23 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	06/24/12 09:23 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	06/24/12 09:23 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	06/22/12 10:07 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	06/22/12 10:07 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/22/12 10:07 / dmf
Radium 226	24	pCi/L		0.17		E903.0	06/19/12 13:14 / trs
Radium 226 precision (±)	0.98	pCi/L				E903.0	06/19/12 13:14 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	06/19/12 13:14 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/15/12 08:38 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	06/15/12 08:38 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/15/12 08:38 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	2.3	pCi/L		0.9		E909.0	06/29/12 22:10 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	06/29/12 22:10 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/29/12 22:10 / eli-cs
Polonium 210	0.3	pCi/L		0.3		E912.0	06/18/12 14:58 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	06/18/12 14:58 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	06/18/12 14:58 / dmf
Radium 226	2.2	pCi/L		0.12		E903.0	06/25/12 10:26 / lbb
Radium 226 precision (±)	0.26	pCi/L				E903.0	06/25/12 10:26 / lbb
Radium 226 MDC	0.12	pCi/L				E903.0	06/25/12 10:26 / lbb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/19/12 17:16 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/19/12 17:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/19/12 17:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.28	%				A1030 E	06/22/12 06:55 / kbh
Anions	17.9	meq/L				A1030 E	06/22/12 06:55 / kbh
Cations	18.7	meq/L				A1030 E	06/22/12 06:55 / kbh
Solids, Total Dissolved Calculated	1100	mg/L				A1030 E	06/22/12 06:55 / kbh
TDS Balance (0.80 - 1.20)	1.03					A1030 E	06/22/12 06:55 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-001	**CollectionDate:**	8/20/2012
ClientSample ID:	Monitor 1	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	416	mg/L		5	SM 2320B	08/22/2012 2001	KV
Alkalinity, Bicarbonate as HCO3	475	mg/L		5	SM 2320B	08/22/2012 2001	KV
Alkalinity, Carbonate as CO3	16	mg/L		5	SM 2320B	08/22/2012 2001	KV
Chloride	177	mg/L		1	EPA 300.0	08/27/2012 1628	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	08/22/2012 2001	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1142	RH
Sulfate	49	mg/L		1	EPA 300.0	08/24/2012 2328	AMB
Calcium	5	mg/L		1	EPA 200.7	08/27/2012 1347	BK
Magnesium	1	mg/L		1	EPA 200.7	08/27/2012 1347	BK
Potassium	11	mg/L		1	EPA 200.7	08/27/2012 1347	BK
Sodium	349	mg/L		1	EPA 200.7	08/27/2012 1347	BK
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	08/23/2012 1206	RH
Silica as SiO2	15	mg/L		1	EPA 200.7	08/23/2012 1242	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	08/22/2012 2001	KV
Electrical Conductivity	1350	µmhos/cm		1	SM 2510B	08/22/2012 2001	KV
Total Dissolved Solids (180)	840	mg/L		10	SM 2540	08/22/2012 1352	JCG
Data Quality							
Cation Sum	15.78	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	14.34	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.77	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	860	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.98	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-001
ClientSample ID: Monitor 1
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1242	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	08/22/2012 1605	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1605	MS
Boron	1.6	mg/L		0.1	EPA 200.7	08/23/2012 1242	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1605	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1242	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1605	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1242	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1605	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1242	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1128	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1605	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1242	DG
Selenium	ND	mg/L		0.001	EPA 200.8	08/22/2012 1605	MS
Uranium	0.0073	mg/L		0.0003	EPA 200.8	08/22/2012 1605	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1605	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1242	DG
Metals - Suspended							
Uranium	0.0092	mg/L		0.0003	EPA 200.8	08/29/2012 2044	MS
Uranium Activity	6.2	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	19.7	pCi/L		1	OTW01	09/13/2012 1448	SH
Lead 210 Precision (±)	1.1	pCi/L			OTW01	09/13/2012 1448	SH
Polonium 210	1.0	pCi/L		1	OTW01	09/12/2012 1657	SH
Polonium 210 Precision (±)	0.8	pCi/L			OTW01	09/12/2012 1657	SH
Radium 226	12.9	pCi/L		0.2	SM 7500-Ra B	09/07/2012 1016	SH
Radium 226 Precision (±)	0.5	pCi/L			SM 7500-Ra B	09/07/2012 1016	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/19/2012 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/19/2012 829	MB
Thorium 229 Tracer (30-120)	81.8	%		0.2	ACW10	09/19/2012 829	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-001
ClientSample ID: Monitor 1
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	53.0	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	1.5	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	2.5	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	0.8	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	7.8	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	0.3	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	3.0	pCi/L		0.2	ACW10	09/14/2012 1211	MB
Thorium 230 Precision (±)	0.5	pCi/L			ACW10	09/14/2012 1211	MB
Thorium 229 Tracer (30-120)	104	%		0.2	ACW10	09/14/2012 1211	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-002
ClientSample ID: Monitor 2
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	410	mg/L		5	SM 2320B	08/22/2012 2013	KV
Alkalinity, Bicarbonate as HCO3	471	mg/L		5	SM 2320B	08/22/2012 2013	KV
Alkalinity, Carbonate as CO3	14	mg/L		5	SM 2320B	08/22/2012 2013	KV
Chloride	166	mg/L		1	EPA 300.0	08/27/2012 1639	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	08/22/2012 2013	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1144	RH
Sulfate	46	mg/L		1	EPA 300.0	08/24/2012 2339	AMB
Calcium	5	mg/L		1	EPA 200.7	08/27/2012 1350	BK
Magnesium	1	mg/L		1	EPA 200.7	08/27/2012 1350	BK
Potassium	11	mg/L		1	EPA 200.7	08/27/2012 1350	BK
Sodium	337	mg/L		1	EPA 200.7	08/27/2012 1350	BK
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	08/23/2012 1207	RH
Silica as SiO2	16	mg/L		1	EPA 200.7	08/23/2012 1244	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	08/22/2012 2013	KV
Electrical Conductivity	1340	µmhos/cm		1	SM 2510B	08/22/2012 2013	KV
Total Dissolved Solids (180)	850	mg/L		10	SM 2540	08/22/2012 1357	JCG
Data Quality							
Cation Sum	15.26	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	13.85	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.81	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	830	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.02	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-002
ClientSample ID: Monitor 2
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1244	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	08/22/2012 1610	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1610	MS
Boron	1.5	mg/L		0.1	EPA 200.7	08/23/2012 1244	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1610	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1244	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1610	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1244	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1610	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1244	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1130	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1610	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1244	DG
Selenium	ND	mg/L		0.001	EPA 200.8	08/22/2012 1610	MS
Uranium	0.0017	mg/L		0.0003	EPA 200.8	08/22/2012 1610	MS
Uranium Activity	1.2	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1610	MS
Zinc	0.09	mg/L		0.01	EPA 200.7	08/23/2012 1244	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2049	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	2.8	pCi/L		1	OTW01	09/25/2012 1131	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	09/25/2012 1131	SH
Polonium 210	ND	pCi/L		1	OTW01	09/24/2012 1534	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/24/2012 1534	SH
Radium 226	1.1	pCi/L		0.2	SM 7500-Ra B	09/07/2012 1016	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/07/2012 1016	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/19/2012 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/19/2012 829	MB
Thorium 229 Tracer (30-120)	81.4	%		0.2	ACW10	09/19/2012 829	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-002	**CollectionDate:**	8/20/2012
ClientSample ID:	Monitor 2	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	0.3	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	0.3	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/14/2012 1211	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/14/2012 1211	MB
Thorium 229 Tracer (30-120)	42.4	%		0.2	ACW10	09/14/2012 1211	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

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-003
ClientSample ID: Monitor 4A
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	390	mg/L		5	SM 2320B	08/22/2012 2027	KV
Alkalinity, Bicarbonate as HCO3	432	mg/L		5	SM 2320B	08/22/2012 2027	KV
Alkalinity, Carbonate as CO3	22	mg/L		5	SM 2320B	08/22/2012 2027	KV
Chloride	196	mg/L		1	EPA 300.0	08/27/2012 1651	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	08/22/2012 2027	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1145	RH
Sulfate	95	mg/L		1	EPA 300.0	08/24/2012 2350	AMB
Calcium	4	mg/L		1	EPA 200.7	09/01/2012 1255	BK
Magnesium	ND	mg/L		1	EPA 200.7	09/01/2012 1255	BK
Potassium	19	mg/L		1	EPA 200.7	09/01/2012 1255	BK
Sodium	357	mg/L		1	EPA 200.7	09/01/2012 1255	BK
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	08/23/2012 1213	RH
Silica as SiO2	17	mg/L		1	EPA 200.7	08/23/2012 1246	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	08/22/2012 2027	KV
Electrical Conductivity	1510	µmhos/cm		1	SM 2510B	08/22/2012 2027	KV
Total Dissolved Solids (180)	930	mg/L		10	SM 2540	08/22/2012 1402	JCG
Data Quality							
Cation Sum	16.20	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	15.34	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	2.72	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	920	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.01	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-003
ClientSample ID: Monitor 4A
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1246	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	08/22/2012 1616	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1616	MS
Boron	1.5	mg/L		0.1	EPA 200.7	08/23/2012 1246	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1616	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1246	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1616	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1246	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1616	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1246	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1135	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1616	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1246	DG
Selenium	ND	mg/L		0.001	EPA 200.8	08/22/2012 1616	MS
Uranium	0.0346	mg/L		0.0003	EPA 200.8	08/22/2012 1616	MS
Uranium Activity	23.4	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1616	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1246	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	08/29/2012 2054	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	540	pCi/L		1	OTW01	09/25/2012 1131	SH
Lead 210 Precision (±)	5.4	pCi/L			OTW01	09/25/2012 1131	SH
Polonium 210	100	pCi/L		1	OTW01	09/24/2012 1534	SH
Polonium 210 Precision (±)	4.3	pCi/L			OTW01	09/24/2012 1534	SH
Radium 226	348	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	2.3	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/19/2012 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/19/2012 829	MB
Thorium 229 Tracer (30-120)	84.7	%		0.2	ACW10	09/19/2012 829	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-003	**CollectionDate:**	8/20/2012
ClientSample ID:	Monitor 4A	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	60.4	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	2.2	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	17.2	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	1.5	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	0.3	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/14/2012 1211	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/14/2012 1211	MB
Thorium 229 Tracer (30-120)	71.1	%		0.2	ACW10	09/14/2012 1211	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

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-004
ClientSample ID: Monitor 5
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	266	mg/L		5	SM 2320B	08/22/2012 2039	KV
Alkalinity, Bicarbonate as HCO3	230	mg/L		5	SM 2320B	08/22/2012 2039	KV
Alkalinity, Carbonate as CO3	47	mg/L		5	SM 2320B	08/22/2012 2039	KV
Chloride	233	mg/L		1	EPA 300.0	08/25/2012 002	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	08/22/2012 2039	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1146	RH
Sulfate	275	mg/L		1	EPA 300.0	08/25/2012 002	AMB
Calcium	5	mg/L		1	EPA 200.7	09/01/2012 1258	BK
Magnesium	1	mg/L		1	EPA 200.7	09/01/2012 1258	BK
Potassium	29	mg/L		1	EPA 200.7	09/19/2012 1244	DG
Sodium	429	mg/L		1	EPA 200.7	09/01/2012 1258	BK
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	08/23/2012 1214	RH
Silica as SiO2	20	mg/L		1	EPA 200.7	08/23/2012 1254	DG
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	08/22/2012 2039	KV
Electrical Conductivity	1880	µmhos/cm		1	SM 2510B	08/22/2012 2039	KV
Total Dissolved Solids (180)	1190	mg/L		10	SM 2540	08/22/2012 1407	JCG
Data Quality							
Cation Sum	19.73	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	17.99	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.62	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	1150	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.03	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-004
ClientSample ID: Monitor 5
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1254	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	08/22/2012 1621	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1621	MS
Boron	1.3	mg/L		0.1	EPA 200.7	08/23/2012 1254	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1621	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1254	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1621	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1254	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1621	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1254	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1143	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1621	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1254	DG
Selenium	0.006	mg/L		0.001	EPA 200.8	08/22/2012 1621	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	08/22/2012 1621	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1621	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1254	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2113	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	1.6	pCi/L		1	OTW01	09/25/2012 1131	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	09/25/2012 1131	SH
Polonium 210	ND	pCi/L		1	OTW01	09/24/2012 1534	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/24/2012 1534	SH
Radium 226	5.5	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.3	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/19/2012 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/19/2012 829	MB
Thorium 229 Tracer (30-120)	88.4	%		0.2	ACW10	09/19/2012 829	MB

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-004
ClientSample ID: Monitor 5
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/04/2012 1108	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/04/2012 1108	MB
Thorium 229 Tracer (30-120)	78.2	%		0.2	ACW10	10/04/2012 1108	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-005
ClientSample ID: Monitor 6
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	322	mg/L		5	SM 2320B	08/22/2012 2051	KV
Alkalinity, Bicarbonate as HCO3	345	mg/L		5	SM 2320B	08/22/2012 2051	KV
Alkalinity, Carbonate as CO3	23	mg/L		5	SM 2320B	08/22/2012 2051	KV
Chloride	304	mg/L		1	EPA 300.0	08/27/2012 1702	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	08/22/2012 2051	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1147	RH
Sulfate	46	mg/L		1	EPA 300.0	08/25/2012 013	AMB
Calcium	9	mg/L		1	EPA 200.7	09/01/2012 1300	BK
Magnesium	1	mg/L		1	EPA 200.7	09/01/2012 1300	BK
Potassium	23	mg/L		1	EPA 200.7	09/01/2012 1300	BK
Sodium	378	mg/L		1	EPA 200.7	09/01/2012 1300	BK
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	08/23/2012 1215	RH
Silica as SiO2	16	mg/L		1	EPA 200.7	08/23/2012 1259	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	08/22/2012 2051	KV
Electrical Conductivity	1660	µmhos/cm		1	SM 2510B	08/22/2012 2051	KV
Total Dissolved Solids (180)	970	mg/L		10	SM 2540	08/22/2012 1412	JCG
Data Quality							
Cation Sum	17.55	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	16.00	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.62	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	970	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-005
ClientSample ID: Monitor 6
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1259	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	08/22/2012 1626	MS
Barium	0.1	mg/L		0.1	EPA 200.8	08/22/2012 1626	MS
Boron	1.4	mg/L		0.1	EPA 200.7	08/23/2012 1259	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1626	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1259	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1626	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1259	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1626	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1259	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1145	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1626	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1259	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	08/22/2012 1626	MS
Uranium	0.0011	mg/L		0.0003	EPA 200.8	08/22/2012 1626	MS
Uranium Activity	0.7	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1626	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1259	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2118	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	09/25/2012 1131	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	09/25/2012 1131	SH
Polonium 210	ND	pCi/L		1	OTW01	09/24/2012 1534	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/24/2012 1534	SH
Radium 226	2.7	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.2	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/19/2012 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/19/2012 829	MB
Thorium 229 Tracer (30-120)	93.0	%		0.2	ACW10	09/19/2012 829	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-005
ClientSample ID: Monitor 6
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/14/2012 1211	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/14/2012 1211	MB
Thorium 229 Tracer (30-120)	54.0	%		0.2	ACW10	09/14/2012 1211	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-006
ClientSample ID: Monitor 7
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	311	mg/L		5	SM 2320B	08/22/2012 2103	KV
Alkalinity, Bicarbonate as HCO3	339	mg/L		5	SM 2320B	08/22/2012 2103	KV
Alkalinity, Carbonate as CO3	20	mg/L		5	SM 2320B	08/22/2012 2103	KV
Chloride	192	mg/L		1	EPA 300.0	08/25/2012 024	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	08/22/2012 2103	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1148	RH
Sulfate	278	mg/L		1	EPA 300.0	08/25/2012 024	AMB
Calcium	8	mg/L		1	EPA 200.7	09/01/2012 1303	BK
Magnesium	2	mg/L		1	EPA 200.7	09/19/2012 1247	DG
Potassium	18	mg/L		1	EPA 200.7	09/19/2012 1247	DG
Sodium	423	mg/L		1	EPA 200.7	09/19/2012 1247	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	08/23/2012 1216	RH
Silica as SiO2	16	mg/L		1	EPA 200.7	08/23/2012 1325	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	08/22/2012 2103	KV
Electrical Conductivity	1730	µmhos/cm		1	SM 2510B	08/22/2012 2103	KV
Total Dissolved Solids (180)	1080	mg/L		10	SM 2540	08/22/2012 1417	JCG
Data Quality							
Cation Sum	19.42	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	17.72	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.57	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	1120	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-006
ClientSample ID: Monitor 7
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1325	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	08/22/2012 1642	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1642	MS
Boron	1.4	mg/L		0.1	EPA 200.7	08/23/2012 1325	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1642	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1325	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1642	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1325	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1642	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1325	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1147	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1642	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1325	DG
Selenium	ND	mg/L		0.001	EPA 200.8	08/22/2012 1642	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	08/22/2012 1642	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1642	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1325	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2123	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	09/25/2012 1131	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 1131	SH
Polonium 210	ND	pCi/L		1	OTW01	09/24/2012 1534	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/24/2012 1534	SH
Radium 226	0.9	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/19/2012 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/19/2012 829	MB
Thorium 229 Tracer (30-120)	90.0	%		0.2	ACW10	09/19/2012 829	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-006	**CollectionDate:**	8/20/2012
ClientSample ID:	Monitor 7	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/15/2012 935	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/15/2012 935	MB
Thorium 229 Tracer (30-120)	77.2	%		0.2	ACW10	09/15/2012 935	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-007
ClientSample ID: Monitor 8
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	296	mg/L		5	SM 2320B	08/22/2012 2115	KV
Alkalinity, Bicarbonate as HCO3	336	mg/L		5	SM 2320B	08/22/2012 2115	KV
Alkalinity, Carbonate as CO3	13	mg/L		5	SM 2320B	08/22/2012 2115	KV
Chloride	169	mg/L		1	EPA 300.0	08/27/2012 1725	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	08/22/2012 2115	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1155	RH
Sulfate	362	mg/L		1	EPA 300.0	08/25/2012 036	AMB
Calcium	10	mg/L		1	EPA 200.7	08/23/2012 1327	BK
Magnesium	3	mg/L		1	EPA 200.7	08/23/2012 1327	BK
Potassium	23	mg/L		1	EPA 200.7	08/23/2012 1327	BK
Sodium	430	mg/L		1	EPA 200.7	08/23/2012 1327	BK
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	08/23/2012 1217	RH
Silica as SiO2	15	mg/L		1	EPA 200.7	08/23/2012 1327	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	08/22/2012 2115	KV
Electrical Conductivity	1830	µmhos/cm		1	SM 2510B	08/22/2012 2115	KV
Total Dissolved Solids (180)	1250	mg/L		10	SM 2540	08/22/2012 1422	JCG
Data Quality							
Cation Sum	20.04	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	18.23	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.72	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	1190	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-007
ClientSample ID: Monitor 8
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1327	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	08/22/2012 1647	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1647	MS
Boron	1.3	mg/L		0.1	EPA 200.7	08/23/2012 1327	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1647	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1327	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1647	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1327	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1647	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1327	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1148	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1647	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1327	DG
Selenium	ND	mg/L		0.001	EPA 200.8	08/22/2012 1647	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	08/22/2012 1647	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1647	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1327	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2138	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	09/25/2012 1131	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	09/25/2012 1131	SH
Polonium 210	ND	pCi/L		1	OTW01	09/24/2012 1534	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/24/2012 1534	SH
Radium 226	0.5	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/20/2012 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/20/2012 1234	MB
Thorium 229 Tracer (30-120)	ND	%		0.2	ACW10	09/20/2012 1234	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-007
ClientSample ID: Monitor 8
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	0.3	pCi/L		0.2	ACW10	09/15/2012 935	MB
Thorium 230 Precision (±)	0.2	pCi/L			ACW10	09/15/2012 935	MB
Thorium 229 Tracer (30-120)	46.6	%		0.2	ACW10	09/15/2012 935	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-008
ClientSample ID: Monitor 9
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	356	mg/L		5	SM 2320B	08/22/2012 2127	KV
Alkalinity, Bicarbonate as HCO3	390	mg/L		5	SM 2320B	08/22/2012 2127	KV
Alkalinity, Carbonate as CO3	22	mg/L		5	SM 2320B	08/22/2012 2127	KV
Chloride	224	mg/L		1	EPA 300.0	08/27/2012 1736	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	08/22/2012 2127	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1157	RH
Sulfate	79	mg/L		1	EPA 300.0	08/25/2012 047	AMB
Calcium	3	mg/L		1	EPA 200.7	09/01/2012 1305	BK
Magnesium	ND	mg/L		1	EPA 200.7	09/01/2012 1305	BK
Potassium	18	mg/L		1	EPA 200.7	09/01/2012 1305	BK
Sodium	361	mg/L		1	EPA 200.7	09/01/2012 1305	BK
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	08/23/2012 1218	RH
Silica as SiO2	15	mg/L		1	EPA 200.7	08/23/2012 1329	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	08/22/2012 2127	KV
Electrical Conductivity	1500	µmhos/cm		1	SM 2510B	08/22/2012 2127	KV
Total Dissolved Solids (180)	1180	mg/L		10	SM 2540	08/22/2012 1427	JCG
Data Quality							
Cation Sum	16.31	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	15.10	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	3.85	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	910	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.30	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-008
ClientSample ID: Monitor 9
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1329	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	08/22/2012 1652	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1652	MS
Boron	1.3	mg/L		0.1	EPA 200.7	08/23/2012 1329	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1652	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1329	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1652	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1329	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1652	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1329	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1150	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1652	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1329	DG
Selenium	ND	mg/L		0.001	EPA 200.8	08/22/2012 1652	MS
Uranium	0.0015	mg/L		0.0003	EPA 200.8	08/22/2012 1652	MS
Uranium Activity	1.0	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1652	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1329	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2143	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	2.9	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	0.8	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/20/2012 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/20/2012 1234	MB
Thorium 229 Tracer (30-120)	82.8	%		0.2	ACW10	09/20/2012 1234	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-008
ClientSample ID: Monitor 9
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	14.3	pCi/L		1	OTW01	09/26/2012 1805	SH
Lead 210 Precision (±)	1.0	pCi/L			OTW01	09/26/2012 1805	SH
Polonium 210	ND	pCi/L		1	OTW01	09/26/2012 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/26/2012 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/15/2012 935	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/15/2012 935	MB
Thorium 229 Tracer (30-120)	70.5	%		0.2	ACW10	09/15/2012 935	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-009
ClientSample ID: Monitor 10
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	361	mg/L		5	SM 2320B	08/22/2012 2140	KV
Alkalinity, Bicarbonate as HCO3	412	mg/L		5	SM 2320B	08/22/2012 2140	KV
Alkalinity, Carbonate as CO3	14	mg/L		5	SM 2320B	08/22/2012 2140	KV
Chloride	137	mg/L		1	EPA 300.0	08/25/2012 144	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	08/22/2012 2140	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1158	RH
Sulfate	300	mg/L		1	EPA 300.0	08/25/2012 144	AMB
Calcium	7	mg/L		1	EPA 200.7	09/01/2012 1307	BK
Magnesium	2	mg/L		1	EPA 200.7	09/01/2012 1307	BK
Potassium	16	mg/L		1	EPA 200.7	09/01/2012 1307	BK
Sodium	425	mg/L		1	EPA 200.7	09/01/2012 1307	BK
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	08/23/2012 1219	RH
Silica as SiO2	16	mg/L		1	EPA 200.7	08/23/2012 1332	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	08/22/2012 2140	KV
Electrical Conductivity	1710	µmhos/cm		1	SM 2510B	08/22/2012 2140	KV
Total Dissolved Solids (180)	1180	mg/L		10	SM 2540	08/22/2012 1437	JCG
Data Quality							
Cation Sum	19.45	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	17.61	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.96	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	1120	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-009
ClientSample ID: Monitor 10
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1332	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	08/22/2012 1658	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1658	MS
Boron	1.5	mg/L		0.1	EPA 200.7	08/23/2012 1332	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1658	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1332	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1658	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1332	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1658	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1332	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1152	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1658	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1332	DG
Selenium	ND	mg/L		0.001	EPA 200.8	08/22/2012 1658	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	08/22/2012 1658	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1658	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	08/23/2012 1332	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2148	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	0.6	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/20/2012 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/20/2012 1234	MB
Thorium 229 Tracer (30-120)	80.8	%		0.2	ACW10	09/20/2012 1234	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-009	**CollectionDate:**	8/20/2012
ClientSample ID:	Monitor 10	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	3.0	pCi/L		1	OTW01	09/26/2012 1805	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	09/26/2012 1805	SH
Polonium 210	ND	pCi/L		1	OTW01	09/26/2012 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/26/2012 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/15/2012 935	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/15/2012 935	MB
Thorium 229 Tracer (30-120)	74.2	%		0.2	ACW10	09/15/2012 935	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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-010
ClientSample ID: Monitor 11
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	369	mg/L		5	SM 2320B	08/22/2012 2204	KV
Alkalinity, Bicarbonate as HCO3	394	mg/L		5	SM 2320B	08/22/2012 2204	KV
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	08/22/2012 2204	KV
Chloride	270	mg/L		1	EPA 300.0	08/27/2012 1747	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	08/22/2012 2204	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1159	RH
Sulfate	110	mg/L		1	EPA 300.0	08/25/2012 155	AMB
Calcium	6	mg/L		1	EPA 200.7	09/01/2012 1317	BK
Magnesium	1	mg/L		1	EPA 200.7	09/01/2012 1317	BK
Potassium	26	mg/L		1	EPA 200.7	09/01/2012 1317	BK
Sodium	414	mg/L		1	EPA 200.7	08/23/2012 1334	BK
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	08/23/2012 1220	RH
Silica as SiO2	13	mg/L		1	EPA 200.7	08/23/2012 1334	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	08/22/2012 2204	KV
Electrical Conductivity	1760	µmhos/cm		1	SM 2510B	08/22/2012 2204	KV
Total Dissolved Solids (180)	1120	mg/L		10	SM 2540	08/22/2012 1442	JCG
Data Quality							
Cation Sum	19.09	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	17.31	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.88	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	1060	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.06	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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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

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-010
ClientSample ID: Monitor 11
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	08/23/2012 1334	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	08/22/2012 1718	MS
Barium	ND	mg/L		0.1	EPA 200.8	08/22/2012 1718	MS
Boron	1.4	mg/L		0.1	EPA 200.7	08/23/2012 1334	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1718	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1334	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1718	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1334	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1718	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1334	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1154	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1718	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1334	DG
Selenium	0.006	mg/L		0.001	EPA 200.8	08/22/2012 1718	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	08/22/2012 1718	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1718	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1334	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2153	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	0.4	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/20/2012 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/20/2012 1234	MB
Thorium 229 Tracer (30-120)	74.2	%		0.2	ACW10	09/20/2012 1234	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-010	**CollectionDate:**	8/20/2012
ClientSample ID:	Monitor 11	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	15.5	pCi/L		1	OTW01	09/26/2012 1805	SH
Lead 210 Precision (±)	1.0	pCi/L			OTW01	09/26/2012 1805	SH
Polonium 210	ND	pCi/L		1	OTW01	09/26/2012 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/26/2012 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/15/2012 935	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/15/2012 935	MB
Thorium 229 Tracer (30-120)	49.9	%		0.2	ACW10	09/15/2012 935	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

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 1/25/2013
Report ID: S1208384002
(Replaces S1208384001)

ProjectName: 3rd-Qtr, Marsland Monitor Wells
Lab ID: S1208384-011
ClientSample ID: CPW-2010-1
COC:

WorkOrder: S1208384
CollectionDate: 8/20/2012
DateReceived: 8/22/2012 10:10:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	298	mg/L		5	SM 2320B	08/22/2012 2216	KV
Alkalinity, Bicarbonate as HCO3	311	mg/L		5	SM 2320B	08/22/2012 2216	KV
Alkalinity, Carbonate as CO3	26	mg/L		5	SM 2320B	08/22/2012 2216	KV
Chloride	327	mg/L		1	EPA 300.0	08/27/2012 1759	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	08/22/2012 2216	KV
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	08/28/2012 1200	RH
Sulfate	73	mg/L		1	EPA 300.0	08/25/2012 207	AMB
Calcium	14	mg/L		1	EPA 200.7	09/01/2012 1319	BK
Magnesium	ND	mg/L		1	EPA 200.7	09/01/2012 1319	BK
Potassium	23	mg/L		1	EPA 200.7	09/01/2012 1319	BK
Sodium	399	mg/L		1	EPA 200.7	09/01/2012 1319	BK
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	08/23/2012 1221	RH
Silica as SiO2	15	mg/L		1	EPA 200.7	08/23/2012 1336	DG
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	08/22/2012 2216	KV
Electrical Conductivity	1740	µmhos/cm		1	SM 2510B	08/22/2012 2216	KV
Total Dissolved Solids (180)	1070	mg/L		10	SM 2540	08/22/2012 1447	JCG
Data Quality							
Cation Sum	18.64	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Anion Sum	16.99	meq/L		0.01	SM 1030E	10/11/2012 1305	WN
Cation-Anion Balance (± 5%)	4.63	%		0.01	SM 1030E	10/11/2012 1305	WN
Solids, Total Dissolved (Calc)	1030	mg/L		10	SM 1030E	10/11/2012 1305	WN
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	10/11/2012 1309	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-011	**CollectionDate:**	8/20/2012
ClientSample ID:	CPW-2010-1	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	08/23/2012 1336	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	08/22/2012 1723	MS
Barium	0.1	mg/L		0.1	EPA 200.8	08/22/2012 1723	MS
Boron	1.3	mg/L		0.1	EPA 200.7	08/23/2012 1336	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	08/22/2012 1723	MS
Chromium	ND	mg/L		0.05	EPA 200.7	08/23/2012 1336	DG
Copper	ND	mg/L		0.1	EPA 200.8	08/22/2012 1723	MS
Iron	ND	mg/L		0.05	EPA 200.7	08/23/2012 1336	DG
Lead	ND	mg/L		0.05	EPA 200.8	08/22/2012 1723	MS
Manganese	ND	mg/L		0.01	EPA 200.7	08/23/2012 1336	DG
Mercury	ND	mg/L		0.001	EPA 245.1	08/24/2012 1156	CS
Molybdenum	ND	mg/L		0.1	EPA 200.8	08/22/2012 1723	MS
Nickel	ND	mg/L		0.05	EPA 200.7	08/23/2012 1336	DG
Selenium	0.008	mg/L		0.001	EPA 200.8	08/22/2012 1723	MS
Uranium	0.0037	mg/L		0.0003	EPA 200.8	08/22/2012 1723	MS
Uranium Activity	2.5	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Vanadium	ND	mg/L		0.02	EPA 200.8	08/22/2012 1723	MS
Zinc	ND	mg/L		0.01	EPA 200.7	08/23/2012 1336	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	08/29/2012 2158	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/11/2012 1309	WN
Radionuclides - Dissolved							
Lead 210	5.8	pCi/L		1	OTW01	09/25/2012 1506	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	09/25/2012 1506	SH
Polonium 210	ND	pCi/L		1	OTW01	09/25/2012 940	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/25/2012 940	SH
Radium 226	14.3	pCi/L		0.2	SM 7500-Ra B	09/07/2012 000	SH
Radium 226 Precision (±)	0.4	pCi/L			SM 7500-Ra B	09/07/2012 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/20/2012 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/20/2012 1234	MB
Thorium 229 Tracer (30-120)	98.5	%		0.2	ACW10	09/20/2012 1234	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____

Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

Company:	Cameco Resources, Crow Butte Operation PO Box 169 Crawford, NE 69339	**Date Reported** **Report ID:**	1/25/2013 S1208384002 (Replaces S1208384001)
ProjectName:	3rd-Qtr, Marsland Monitor Wells	**WorkOrder:**	S1208384
Lab ID:	S1208384-011	**CollectionDate:**	8/20/2012
ClientSample ID:	CPW-2010-1	**DateReceived:**	8/22/2012 10:10:00 AM
COC:		**FieldSampler:**	
		Matrix:	Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	6.4	pCi/L		1	OTW01	09/26/2012 1805	SH
Lead 210 Precision (±)	0.7	pCi/L			OTW01	09/26/2012 1805	SH
Polonium 210	ND	pCi/L		1	OTW01	09/26/2012 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/26/2012 1440	SH
Radium 226	3.5	pCi/L		0.2	SM 7500-Ra B	09/18/2012 1117	SH
Radium 226 Precision (±)	0.2	pCi/L			SM 7500-Ra B	09/18/2012 1117	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/15/2012 935	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/15/2012 935	MB
Thorium 229 Tracer (30-120)	81.4	%		0.2	ACW10	09/15/2012 935	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-008
Client Sample ID: Well #700

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0060	mg/L		0.0003		E200.8	06/29/12 17:24 / cp
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:24 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:50 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:50 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/09/12 11:58 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/09/12 11:58 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/09/12 11:58 / eli-cs
Polonium 210	1.7	pCi/L		0.6		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.9	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.18	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 12:48 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/18/12 12:48 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 12:48 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/12 03:15 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/12 03:15 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/12 03:15 / eli-cs
Polonium 210	0.3	pCi/L		0.2		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:55 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	06/29/12 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:55 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-001
ClientSample ID: Well 700
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0066	mg/L		0.0003	EPA 200.8	09/20/2012 2356	MS
Uranium Activity	4.5	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1414	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	10/10/2012 1351	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	10/10/2012 1351	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1057	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1057	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/11/2012 816	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	10/11/2012 816	MB
Thorium 229 Tracer (30-120)	80.3	%		0.2	ACW10	10/11/2012 816	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	89.6	%		0.2	ACW10	10/16/2012 1046	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-001
Client Sample ID: 700

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0073	mg/L		0.0003		E200.8	12/20/12 17:37 / cp
Uranium, Activity	4.9E-09	uCi/mL		2.0E-10		E200.8	12/20/12 17:37 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:19 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:19 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	12/19/12 02:21 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/19/12 02:21 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	12/19/12 02:21 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 11:58 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 11:58 / dmf
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 11:58 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/24/12 23:22 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/24/12 23:22 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/24/12 23:22 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/20/12 14:14 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 14:14 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/20/12 14:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-009
ClientSample ID: Well 700
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 10:22:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0072	mg/L		0.0003	EPA 200.8	03/21/2013 1419	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/22/2013 1937	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 1224	[redacted]
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 1224	[redacted]
Thorium 229 Tracer (30-120)	70.7	pCi/L			ACW10	04/02/2013 1224	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 805	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 805	MB
Thorium 229 Tracer (30-120)	67.6	pCi/L			ACW10	04/03/2013 805	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-010
Client Sample ID: Well #702

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0034	mg/L		0.0003		E200.8	06/29/12 17:26 / cp
Uranium, Activity	2.3E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:26 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:52 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:52 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/09/12 15:18 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/09/12 15:18 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/09/12 15:18 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.10	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.15	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 12:48 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	07/18/12 12:48 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 12:48 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/12 05:20 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/12 05:20 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/12 05:20 / eli-cs
Polonium 210	0.6	pCi/L		0.3		E912.0	07/13/12 13:47 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/13/12 13:47 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/13/12 13:47 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:55 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/29/12 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:55 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-002
ClientSample ID: Well 702
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0039	mg/L		0.0003	EPA 200.8	09/21/2012 011	MS
Uranium Activity	2.6	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1430	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1351	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1351	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1057	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1057	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/11/2012 816	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	10/11/2012 816	MB
Thorium 229 Tracer (30-120)	81.7	%		0.2	ACW10	10/11/2012 816	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	92.8	%		0.2	ACW10	10/16/2012 1046	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-002
Client Sample ID: 702

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0041	mg/L		0.0003		E200.8	12/20/12 17:43 / cp
Uranium, Activity	2.8E-09	uCi/mL		2.0E-10		E200.8	12/20/12 17:43 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:47 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:47 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/19/12 04:36 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/19/12 04:36 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/19/12 04:36 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 11:58 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 11:58 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 11:58 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 01:04 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 01:04 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 01:04 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 14:14 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 14:14 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 14:14 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-008
ClientSample ID: Well 702
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 11:05:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0040	mg/L		0.0003	EPA 200.8	03/21/2013 1414	MS
Uranium Activity	2.7	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/22/2013 1932	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 1224	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 1224	MB
Thorium 229 Tracer (30-120)	66.8	pCi/L			ACW10	04/02/2013 1224	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 805	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 805	MB
Thorium 229 Tracer (30-120)	65.2	pCi/L			ACW10	04/03/2013 805	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-004
Client Sample ID: 703 (Furman)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	158	mg/L		1		A2320 B	04/05/11 22:59 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/05/11 22:59 / jba
Bicarbonate as HCO3	193	mg/L		1		A2320 B	04/05/11 22:59 / jba
Calcium	41	mg/L		1		E200.7	04/07/11 23:11 / cp
Chloride	3	mg/L		1		E300.0	04/08/11 06:07 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/08/11 09:50 / jba
Magnesium	8	mg/L		1		E200.7	04/07/11 23:11 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/06/11 15:16 / dc
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	04/07/11 14:06 / dc
Potassium	3	mg/L		1		E200.7	04/07/11 23:11 / cp
Silica	69.7	mg/L		0.2		E200.7	04/07/11 23:11 / cp
Sodium	16	mg/L		1		E200.7	04/07/11 23:11 / cp
Sulfate	7	mg/L		1		E300.0	04/08/11 06:07 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	317	umhos/cm		1		A2510 B	04/05/11 15:04 / lr
pH	7.78	s.u.		0.01		A4500-H B	04/05/11 15:04 / lr
Solids, Total Dissolved TDS @ 180 C	238	mg/L		10		A2540 C	04/05/11 15:38 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/07/11 08:45 / sml
Arsenic	0.004	mg/L		0.001		E200.8	04/07/11 08:45 / sml
Barium	0.1	mg/L		0.1		E200.8	04/07/11 08:45 / sml
Boron	ND	mg/L		0.1		E200.8	04/07/11 08:45 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/07/11 08:45 / sml
Chromium	ND	mg/L		0.05		E200.8	04/07/11 08:45 / sml
Copper	ND	mg/L		0.01		E200.8	04/07/11 08:45 / sml
Iron	ND	mg/L		0.03		E200.8	04/07/11 08:45 / sml
Lead	ND	mg/L		0.001		E200.8	04/07/11 08:45 / sml
Manganese	ND	mg/L		0.01		E200.8	04/07/11 08:45 / sml
Mercury	ND	mg/L		0.001		E200.8	04/07/11 08:45 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/07/11 08:45 / sml
Nickel	ND	mg/L		0.05		E200.8	04/07/11 08:45 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/07/11 08:45 / sml
Uranium	0.0053	mg/L		0.0003		E200.8	04/07/11 08:45 / sml
Uranium, Activity	3.6E-09	uCi/mL		2.0E-10		E200.8	04/07/11 08:45 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/07/11 08:45 / sml
Zinc	0.04	mg/L		0.01		E200.8	04/07/11 08:45 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 15:57 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 15:57 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-004
Client Sample ID: 703 (Furman)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 03:51 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 03:51 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 03:51 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.2	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:11 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/02/11 09:11 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:11 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 11:57 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 11:57 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 11:57 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/26/11 03:02 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/26/11 03:02 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 03:02 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/27/11 15:28 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	04/27/11 15:28 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/27/11 15:28 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.31	%				Calculation	04/12/11 13:48 / kbh
Anions	3.53	meq/L				Calculation	04/12/11 13:48 / kbh
Cations	3.44	meq/L				Calculation	04/12/11 13:48 / kbh
Solids, Total Dissolved Calculated	268	mg/L				Calculation	04/12/11 13:48 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	04/12/11 13:48 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-003
Client Sample ID: Well #703

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	160	mg/L		1		A2320 B	06/17/11 12:32 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	06/17/11 12:32 / jba
Bicarbonate as HCO3	195	mg/L		1		A2320 B	06/17/11 12:32 / jba
Calcium	42	mg/L		1		E200.7	06/24/11 23:16 / cp
Chloride	3	mg/L		1		E300.0	06/18/11 16:19 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	06/16/11 14:07 / jba
Magnesium	8	mg/L		1		E200.7	06/24/11 23:16 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	06/17/11 15:11 / dc
Nitrogen, Nitrate+Nitrite as N	1.7	mg/L		0.1		E353.2	06/16/11 14:26 / dc
Potassium	3	mg/L		1		E200.7	06/24/11 23:16 / cp
Silica	64.9	mg/L		0.2		E200.7	06/24/11 23:16 / cp
Sodium	15	mg/L		1		E200.7	06/24/11 23:16 / cp
Sulfate	7	mg/L		1		E300.0	06/18/11 16:19 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	311	umhos/cm		1		A2510 B	06/16/11 14:55 / wc
pH	7.81	s.u.		0.01		A4500-H B	06/16/11 14:55 / wc
Solids, Total Dissolved TDS @ 180 C	230	mg/L		10		A2540 C	06/16/11 16:49 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/17/11 21:44 / sml
Arsenic	0.004	mg/L		0.001		E200.8	06/17/11 21:44 / sml
Barium	0.1	mg/L		0.1		E200.8	06/17/11 21:44 / sml
Boron	ND	mg/L		0.1		E200.7	06/24/11 23:16 / cp
Cadmium	ND	mg/L		0.005		E200.8	06/17/11 21:44 / sml
Chromium	ND	mg/L		0.05		E200.8	06/17/11 21:44 / sml
Copper	ND	mg/L		0.01		E200.8	06/17/11 21:44 / sml
Iron	ND	mg/L		0.03		E200.7	06/24/11 23:16 / cp
Lead	ND	mg/L		0.001		E200.8	06/17/11 21:44 / sml
Manganese	ND	mg/L		0.01		E200.8	06/17/11 21:44 / sml
Mercury	ND	mg/L		0.001		E200.8	06/17/11 21:44 / sml
Molybdenum	ND	mg/L		0.1		E200.8	06/17/11 21:44 / sml
Nickel	ND	mg/L		0.05		E200.8	06/17/11 21:44 / sml
Selenium	0.001	mg/L		0.001		E200.8	06/17/11 21:44 / sml
Uranium	0.0048	mg/L		0.0003		E200.8	06/17/11 21:44 / sml
Uranium, Activity	3.2E-09	uCi/mL		2.0E-10		E200.8	06/17/11 21:44 / sml
Vanadium	ND	mg/L		0.1		E200.8	06/17/11 21:44 / sml
Zinc	0.05	mg/L		0.01		E200.8	06/17/11 21:44 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/23/11 03:23 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/23/11 03:23 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-003
Client Sample ID: Well #703

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	07/07/11 05:25 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	07/07/11 05:25 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	07/07/11 05:25 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/07/11 11:16 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/07/11 11:16 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	07/07/11 11:16 / ep
Radium 226	0.46	pCi/L		0.1		E903.0	07/06/11 01:13 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/06/11 01:13 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	07/06/11 01:13 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/30/11 10:26 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/30/11 10:26 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/30/11 10:26 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/11 16:58 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/11 16:58 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/11 16:58 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/05/11 09:57 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	07/05/11 09:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	07/05/11 09:57 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/05/11 23:13 / dmf
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/05/11 23:13 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	07/05/11 23:13 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/28/11 09:02 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	06/28/11 09:02 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/28/11 09:02 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.711	%				Calculation	06/27/11 09:16 / kbh
Anions	3.58	meq/L				Calculation	06/27/11 09:16 / kbh
Cations	3.53	meq/L				Calculation	06/27/11 09:16 / kbh
Solids, Total Dissolved Calculated	265	mg/L				Calculation	06/27/11 09:16 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	06/27/11 09:16 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-003
Client Sample ID: Well #703

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	148	mg/L		1		A2320 B	09/27/11 17:11 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 17:11 / jba
Bicarbonate as HCO3	181	mg/L		1		A2320 B	09/27/11 17:11 / jba
Calcium	41	mg/L		1		E200.7	10/26/11 17:27 / cp
Chloride	3	mg/L		1		E300.0	10/05/11 03:31 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	09/28/11 10:28 / jba
Magnesium	8	mg/L		1		E200.7	10/26/11 17:27 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 15:48 / dc
Nitrogen, Nitrate+Nitrite as N	1.7	mg/L		0.1		E353.2	10/20/11 11:43 / ljl
Potassium	3	mg/L		1		E200.7	10/26/11 17:27 / cp
Silica	68.5	mg/L		0.2		E200.7	10/26/11 17:27 / cp
Sodium	13	mg/L		1		E200.7	10/26/11 17:27 / cp
Sulfate	7	mg/L		1		E300.0	10/05/11 03:31 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	315	umhos/cm		1		A2510 B	09/27/11 15:30 / lmc
pH	7.99	s.u.		0.01		A4500-H B	09/27/11 15:30 / lmc
Solids, Total Dissolved TDS @ 180 C	231	mg/L		10		A2540 C	09/27/11 17:18 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:27 / cp
Arsenic	0.004	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Barium	0.1	mg/L		0.1		E200.8	10/11/11 04:31 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:27 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:31 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:27 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 04:31 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:27 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:12 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:31 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:31 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Uranium	0.0061	mg/L		0.0003		E200.8	10/11/11 04:31 / sml
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	10/11/11 04:31 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:12 / cp
Zinc	0.07	mg/L		0.01		E200.7	10/26/11 17:27 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:26 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:26 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-003
Client Sample ID: Well #703

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	10/19/11 11:20 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 11:20 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	10/19/11 11:20 / eli-cs
Polonium 210	0.7	pCi/L		0.6		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.6	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 14:22 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 14:22 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 14:22 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.05	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	0.3	pCi/L		0.1		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.341	%				Calculation	11/02/11 12:38 / kbh
Anions	3.33	meq/L				Calculation	11/02/11 12:38 / kbh
Cations	3.36	meq/L				Calculation	11/02/11 12:38 / kbh
Solids, Total Dissolved Calculated	259	mg/L				Calculation	11/02/11 12:38 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	11/02/11 12:38 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-003
Client Sample ID: Well #703

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	144	mg/L		1		A2320 B	12/20/11 19:02 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 19:02 / jba
Bicarbonate as HCO3	176	mg/L		1		A2320 B	12/20/11 19:02 / jba
Calcium	42	mg/L		1		E200.8	12/30/11 18:48 / sml
Chloride	3	mg/L		1		E300.0	12/28/11 09:35 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	12/22/11 11:59 / jba
Magnesium	8	mg/L		1		E200.8	12/30/11 18:48 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:18 / dc
Nitrogen, Nitrate+Nitrite as N	1.7	mg/L		0.1		E353.2	12/21/11 13:15 / dc
Potassium	3	mg/L		1		E200.8	12/30/11 18:48 / sml
Silica	65.7	mg/L		0.2		E200.7	01/12/12 18:26 / cp
Sodium	16	mg/L		1		E200.8	12/30/11 18:48 / sml
Sulfate	7	mg/L		1		E300.0	12/28/11 09:35 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	325	umhos/cm		1		A2510 B	12/20/11 17:02 / wc
pH	7.79	s.u.	H	0.01		A4500-H B	12/21/11 10:34 / wc
Solids, Total Dissolved TDS @ 180 C	208	mg/L		10		A2540 C	12/20/11 16:54 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Arsenic	0.004	mg/L		0.001		E200.8	12/30/11 18:48 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:48 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 18:48 / sml
Copper	ND	mg/L		0.01		E200.8	12/30/11 18:48 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 18:48 / sml
Lead	ND	mg/L		0.001		E200.8	12/21/11 23:20 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:48 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:48 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:26 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 18:48 / sml
Selenium	0.001	mg/L		0.001		E200.8	12/30/11 18:48 / sml
Uranium	0.0040	mg/L		0.0003		E200.8	12/30/11 18:48 / sml
Uranium, Activity	2.7E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:48 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Zinc	0.11	mg/L		0.01		E200.8	12/30/11 18:48 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:21 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:21 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-003
Client Sample ID: Well #703

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 12:13 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 12:13 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 12:13 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	0.5	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 14:10 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 14:10 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 14:10 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.88	%				Calculation	01/04/12 08:42 / kbh
Anions	3.25	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	3.51	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	173	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.20					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-035
Client Sample ID: Well #703

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0036	mg/L		0.0003		E200.8	06/29/12 18:38 / cp
Uranium, Activity	2.5E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:38 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:17 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:17 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/14/12 06:59 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/14/12 06:59 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/14/12 06:59 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/06/12 09:35 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/06/12 09:35 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	07/06/12 09:35 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	07/13/12 00:38 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	07/13/12 00:38 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	07/13/12 00:38 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 14:47 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 14:47 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 14:47 / plj
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/17/12 12:05 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/17/12 12:05 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/17/12 12:05 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/09/12 09:51 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/09/12 09:51 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/09/12 09:51 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-010
ClientSample ID: Well 703
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0049	mg/L		0.0003	EPA 200.8	09/12/2012 1516	MS
Uranium Activity	3.3	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2304	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.9	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	80.9	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/04/2012 1215	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/04/2012 1215	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1303	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1303	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	70.1	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-012
Client Sample ID: 703

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0051	mg/L		0.0003		E200.8	12/20/12 18:27 / cp
Uranium, Activity	3.5E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:27 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 21:15 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 21:15 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 16:34 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 16:34 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 16:34 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.20	pCi/L	U	0.20		E903.0	12/12/12 14:33 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	12/12/12 14:33 / trs
Radium 226 MDC	0.20	pCi/L				E903.0	12/12/12 14:33 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 18:05 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 18:05 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 18:05 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-001
ClientSample ID: Well 703
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 11:12:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0055	mg/L		0.0003	EPA 200.8	03/22/2013 1230	MS
Uranium Activity	3.7	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1954	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1040	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1040	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1851	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1851	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 1211	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 1211	MB
Thorium 229 Tracer (30-120)	44.9	%			ACW10	04/03/2013 1211	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 1309	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 1309	MB
Thorium 229 Tracer (30-120)	24.8	%			ACW10	04/04/2013 1309	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-034
Client Sample ID: Well #704

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0032	mg/L		0.0003		E200.8	06/29/12 18:37 / cp
Uranium, Activity	2.2E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:37 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:15 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:15 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/14/12 03:37 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/14/12 03:37 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/14/12 03:37 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/06/12 09:35 / dmf
Polonium 210 precision (±)	0.6	pCi/L				E912.0	07/06/12 09:35 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	07/06/12 09:35 / dmf
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/12/12 18:23 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/12/12 18:23 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/12/12 18:23 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 14:47 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 14:47 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 14:47 / plj
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/17/12 12:05 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/17/12 12:05 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/17/12 12:05 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/09/12 09:51 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/09/12 09:51 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/09/12 09:51 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-011
ClientSample ID: Well 704
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0052	mg/L		0.0003	EPA 200.8	09/12/2012 1521	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2309	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/27/2012 1017	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/27/2012 1017	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	67.5	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/04/2012 1215	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/04/2012 1215	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1303	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1303	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	84.1	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-013
Client Sample ID: 704

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0053	mg/L		0.0003		E200.8	12/20/12 18:28 / cp
Uranium, Activity	3.6E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:28 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 21:17 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 21:17 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 18:49 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 18:49 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 18:49 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.9	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/12/12 14:33 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/12/12 14:33 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/12/12 14:33 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 19:47 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 19:47 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 19:47 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-002
ClientSample ID: Well 704
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 11:14:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0051	mg/L		0.0003	EPA 200.8	03/22/2013 1250	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1959	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1604	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1604	SH
Polonium 210	ND	pCi/L		1	OTW01	04/07/2013 1454	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1454	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 1211	MB
ıorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 1211	MB
Thorium 229 Tracer (30-120)	40.9	%			ACW10	04/03/2013 1211	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/11/2013 1033	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/11/2013 1033	MB
Thorium 229 Tracer (30-120)	88	%			ACW10	04/11/2013 1033	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-004
Client Sample ID: Well #705

Report Date: 05/19/11
Collection Date: 03/24/11
DateReceived: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	153	mg/L		1		A2320 B	03/25/11 20:50 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	03/25/11 20:50 / jba
Bicarbonate as HCO3	187	mg/L		1		A2320 B	03/25/11 20:50 / jba
Calcium	33	mg/L		1		E200.7	04/05/11 02:31 / cp
Chloride	3	mg/L		1		E300.0	03/29/11 07:09 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/28/11 13:34 / jba
Magnesium	8	mg/L		1		E200.7	04/05/11 02:31 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/28/11 15:29 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	03/29/11 14:25 / dc
Potassium	4	mg/L		1		E200.7	04/05/11 02:31 / cp
Silica	70.6	mg/L		0.2		E200.7	05/11/11 13:58 / cp
Sodium	19	mg/L		1		E200.7	04/05/11 02:31 / cp
Sulfate	9	mg/L		1		E300.0	03/29/11 07:09 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	307	umhos/cm		1		A2510 B	03/25/11 15:07 / lmc
pH	7.94	s.u.		0.01		A4500-H B	03/25/11 15:07 / lmc
Solids, Total Dissolved TDS @ 180 C	216	mg/L		10		A2540 C	03/28/11 14:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Arsenic	0.004	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Barium	0.1	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:35 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:35 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:35 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:31 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:35 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:35 / sml
Selenium	0.001	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Uranium	0.0068	mg/L		0.0003		E200.8	03/31/11 08:35 / sml
Uranium, Activity	4.6E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:35 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Zinc	0.08	mg/L		0.01		E200.7	04/05/11 02:31 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:13 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:13 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-004
Client Sample ID: Well #705

Report Date: 05/19/11
Collection Date: 03/24/11
DateReceived: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	04/25/11 21:55 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	04/25/11 21:55 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	04/25/11 21:55 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/30/11 11:18 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/30/11 11:18 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/30/11 11:18 / ep
Radium 226	0.32	pCi/L		0.12		E903.0	04/04/11 21:16 / dmf
Radium 226 precision (±)	0.12	pCi/L				E903.0	04/04/11 21:16 / dmf
Radium 226 MDC	0.12	pCi/L				E903.0	04/04/11 21:16 / dmf
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/01/11 08:43 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/01/11 08:43 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/01/11 08:43 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 16:48 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 16:48 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 16:48 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.14	pCi/L		0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.67	%				Calculation	04/07/11 12:22 / kbh
Anions	3.46	meq/L				Calculation	04/07/11 12:22 / kbh
Cations	3.22	meq/L				Calculation	04/07/11 12:22 / kbh
Solids, Total Dissolved Calculated	268	mg/L				Calculation	04/07/11 12:22 / kbh
TDS Balance (0.80 - 1.20)	0.810					Calculation	04/07/11 12:22 / kbh

Report Definitions:
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QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-024
Client Sample ID: Well #705

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0056	mg/L		0.0003		E200.8	06/29/12 18:08 / cp
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:08 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:29 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:29 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/12/12 18:06 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/12/12 18:06 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/12/12 18:06 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/05/12 14:51 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 14:51 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 14:51 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/04/12 06:28 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/04/12 06:28 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	07/04/12 06:28 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 12:11 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 12:11 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 12:11 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-020
ClientSample ID: Well 705
COC:

WorkOrder: S1209376
CollectionDate: 9/19/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	167	mg/L		5	SM 2320B	09/23/2012 235	KV
Alkalinity, Bicarbonate as HCO3	199	mg/L		5	SM 2320B	09/23/2012 235	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 235	KV
Chloride	3	mg/L		1	EPA 300.0	09/25/2012 121	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/23/2012 235	KV
Nitrogen, Nitrate+Nitrite (as N)	1.7	mg/L		0.1	EPA 353.2	09/25/2012 1305	RH
Sulfate	8	mg/L		1	EPA 300.0	09/25/2012 121	AM
Calcium	35	mg/L		1	EPA 200.7	09/24/2012 1817	DG
Magnesium	8	mg/L		1	EPA 200.7	09/24/2012 1817	DG
Potassium	4	mg/L		1	EPA 200.7	09/24/2012 1817	DG
Sodium	21	mg/L		1	EPA 200.7	09/24/2012 1817	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1430	RH
Silica as SiO2	60	mg/L		1	EPA 200.7	09/24/2012 1817	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 235	KV
Electrical Conductivity	315	µmhos/cm		1	SM 2510B	09/23/2012 235	KV
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	09/21/2012 1635	JCG
Data Quality							
Cation Sum	3.44	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.74	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	4.13	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	10/23/2012 1434	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 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

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-020
ClientSample ID: Well 705
COC:

WorkOrder: S1209376
CollectionDate: 9/19/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1817	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	09/21/2012 2152	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/21/2012 2152	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1817	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2152	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1817	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2152	MS
Iron	0.06	mg/L		0.03	EPA 200.7	09/24/2012 1817	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2152	MS
Manganese	0.02	mg/L		0.01	EPA 200.7	09/24/2012 1817	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1228	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2152	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1817	DG
[illegible]enium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2152	MS
[illegible]ium	0.0064	mg/L		0.0003	EPA 200.8	09/21/2012 2152	MS
Uranium Activity	4.3	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2152	MS
Zinc	0.05	mg/L		0.01	EPA 200.7	09/24/2012 1817	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/29/2012 013	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	1.3	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/09/2012 838	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/09/2012 838	MB
Thorium 229 Tracer (30-120)	78.6	%		0.2	ACW10	10/09/2012 838	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

[illegible]viewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-020
ClientSample ID: Well 705
COC:

WorkOrder: S1209376
CollectionDate: 9/19/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	3.8	pCi/L	B	1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.6	pCi/L	B		OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1806	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1806	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 1205	MB
Thorium 230 Precision (±)	0.05	pCi/L			ACW10	10/13/2012 1205	MB
Thorium 229 Tracer (30-120)	84.1	%		0.2	ACW10	10/13/2012 1205	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-025
Client Sample ID: 705

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0059	mg/L		0.0003		E200.8	12/20/12 19:21 / cp
Uranium, Activity	4.0E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:21 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:35 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:35 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 00:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 00:53 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 00:53 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.9	pCi/L		0.6		E909.0	12/25/12 05:28 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 05:28 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 05:28 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	0.17	pCi/L		0.12		E903.0	12/18/12 11:24 / trs
Radium 226 precision (±)	0.10	pCi/L				E903.0	12/18/12 11:24 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 11:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Sample Analysis Report

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

Date Reported 4/29/2013
Report ID: S1303398001

ProjectName: Marsland Private Wells 1st Qtr 2013
Lab ID: S1303398-001
ClientSample ID: Well 705
COC:

WorkOrder: S1303398
CollectionDate: 3/21/2013 12:30:00 PM
DateReceived: 3/26/2013 2:15:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0052	mg/L		0.0003	EPA 200.8	03/26/2013 2325	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/02/2013 1354	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/19/2013 1220	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/19/2013 1220	SH
Polonium 210	ND	pCi/L		1	OTW01	04/18/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/18/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/10/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/10/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/23/2013 809	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/23/2013 809	MB
Thorium 229 Tracer (30-120)	83.4	%			ACW10	04/23/2013 809	MB
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	04/19/2013 1432	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/19/2013 1432	SH
Polonium 210	ND	pCi/L		1	OTW01	04/18/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/18/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/15/2013 1413	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/15/2013 1413	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/16/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/16/2013 813	MB
Thorium 229 Tracer (30-120)	39.2	pCi/L			ACW10	04/16/2013 813	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-036
Client Sample ID: Well #706

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0038	mg/L		0.0003		E200.8	06/29/12 18:40 / cp
Uranium, Activity	2.5E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:40 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:19 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:19 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/19/12 14:15 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/19/12 14:15 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/19/12 14:15 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/06/12 09:35 / dmf
Polonium 210 precision (±)	0.7	pCi/L				E912.0	07/06/12 09:35 / dmf
Polonium 210 MDC	1	pCi/L				E912.0	07/06/12 09:35 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.10	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	07/13/12 02:43 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	07/13/12 02:43 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	07/13/12 02:43 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/23/12 14:47 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 14:47 / plj
Polonium 210 MDC	0.2	pCi/L				E912.0	07/23/12 14:47 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/17/12 12:05 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/17/12 12:05 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	07/17/12 12:05 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	07/09/12 09:51 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	07/09/12 09:51 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	07/09/12 09:51 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-012
ClientSample ID: Well 706
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0056	mg/L		0.0003	EPA 200.8	09/12/2012 1559	MS
Uranium Activity	3.8	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	0.0003	mg/L		0.0003	EPA 200.8	09/18/2012 2328	MS
Uranium Activity	0.2	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	1.2	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	0.8	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/27/2012 1017	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/27/2012 1017	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	79.9	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/04/2012 1215	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/04/2012 1215	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1303	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1303	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	87.7	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-026
Client Sample ID: 706

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0059	mg/L		0.0003		E200.8	12/20/12 19:22 / cp
Uranium, Activity	4.0E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:22 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:38 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:38 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 03:09 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 03:09 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 03:09 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.6	pCi/L		0.6		E909.0	12/25/12 07:03 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 07:03 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 07:03 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 11:24 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 11:24 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 11:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303348001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303348-001
ClientSample ID: Well 706
COC: Web

WorkOrder: S1303348
CollectionDate: 3/20/2013 10:45:00 AM
DateReceived: 3/22/2013 2:50:00 PM
FieldSampler: RP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0058	mg/L		0.0003	EPA 200.8	03/23/2013 056	MS
Uranium Activity	3.9	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2145	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/05/2013 1443	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/05/2013 1443	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/11/2013 1033	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/11/2013 1033	MB
Thorium 229 Tracer (30-120)	89.1	%			ACW10	04/11/2013 1033	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1541	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1541	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 800	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 800	MB
Thorium 229 Tracer (30-120)	66.9	%			ACW10	04/08/2013 800	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-015
Client Sample ID: Well #707

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0036	mg/L		0.0003		E200.8	06/29/12 17:34 / cp
Uranium, Activity	2.4E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:34 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:02 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:02 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/10/12 07:59 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/10/12 07:59 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/10/12 07:59 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.16	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 05:04 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 05:04 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 05:04 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/16/12 15:50 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 15:50 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/16/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:30 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-013
ClientSample ID: Well 707
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0050	mg/L		0.0003	EPA 200.8	09/12/2012 1604	MS
Uranium Activity	3.4	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	0.0003	mg/L		0.0003	EPA 200.8	09/18/2012 2333	MS
Uranium Activity	0.2	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/27/2012 1017	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/27/2012 1017	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	78.1	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/04/2012 1215	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/04/2012 1215	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1303	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1303	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/03/2012 1339	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/03/2012 1339	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	74.4	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-027
Client Sample ID: 707

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0048	mg/L		0.0003		E200.8	12/20/12 19:24 / cp
Uranium, Activity	3.2E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:24 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:41 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:41 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 05:24 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 05:24 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 05:24 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.7	pCi/L		0.6		E909.0	12/25/12 08:38 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 08:38 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 08:38 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 11:24 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 11:24 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 11:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-003
ClientSample ID: Well 707
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 10:35:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0052	mg/L		0.0003	EPA 200.8	03/22/2013 1255	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 2014	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.1	pCi/L		1	OTW01	04/07/2013 1604	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/07/2013 1604	SH
Polonium 210	ND	pCi/L		1	OTW01	04/07/2013 1454	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1454	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 1211	MB
norium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 1211	MB
Thorium 229 Tracer (30-120)	65.2	%			ACW10	04/03/2013 1211	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 813	MB
Thorium 229 Tracer (30-120)	74.9	%			ACW10	04/12/2013 813	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-009
Client Sample ID: Well #714

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0086	mg/L		0.0003		E200.8	07/09/12 19:35 / cp
Uranium, Activity	5.8E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:35 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:02 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:02 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 12:18 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 12:18 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 12:18 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.8	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/17/12 22:23 / gb
Radium 226 precision (±)	0.10	pCi/L				E903.0	07/17/12 22:23 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/17/12 22:23 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	08/01/12 04:50 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 04:50 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	08/01/12 04:50 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-016
ClientSample ID: Well 714
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	148	mg/L		5	SM 2320B	10/02/2012 1315	KV
Alkalinity, Bicarbonate as HCO3	181	mg/L		5	SM 2320B	10/02/2012 1315	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	10/02/2012 1315	KV
Chloride	9	mg/L		1	EPA 300.0	10/02/2012 1615	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/23/2012 146	KV
Nitrogen, Nitrate+Nitrite (as N)	7.0	mg/L		0.1	EPA 353.2	09/24/2012 1642	RH
Sulfate	9	mg/L		1	EPA 300.0	09/25/2012 031	AM
Calcium	43	mg/L		1	EPA 200.7	09/24/2012 1807	DG
Magnesium	8	mg/L		1	EPA 200.7	09/24/2012 1807	DG
Potassium	4	mg/L		1	EPA 200.7	09/24/2012 1807	DG
Sodium	17	mg/L		1	EPA 200.7	09/24/2012 1807	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1426	RH
Silica as SiO2	61	mg/L		1	EPA 200.7	09/24/2012 1807	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 146	KV
Electrical Conductivity	338	µmhos/cm		1	SM 2510B	09/23/2012 146	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	09/21/2012 1630	JCG
Data Quality							
Cation Sum	3.63	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.90	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.51	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	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 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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-016
ClientSample ID: Well 714
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1807	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/21/2012 2132	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/21/2012 2132	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1807	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2132	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1807	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2132	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1807	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2132	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1807	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1221	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2132	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1807	DG
[illegible]lenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2132	MS
[illegible]ium	0.0055	mg/L		0.0003	EPA 200.8	09/21/2012 2132	MS
Uranium Activity	3.7	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2132	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1807	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2343	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.1	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/09/2012 838	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	10/09/2012 838	MB
Thorium 229 Tracer (30-120)	77.2	%		0.2	ACW10	10/09/2012 838	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 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

[illegible]viewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-016
ClientSample ID: Well 714
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.4	pCi/L	B	1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L	B		OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1806	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1806	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 1205	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/13/2012 1205	MB
Thorium 229 Tracer (30-120)	72.5	%		0.2	ACW10	10/13/2012 1205	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-014
Client Sample ID: 714

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0060	mg/L		0.0003		E200.8	12/20/12 18:30 / cp
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:30 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 21:18 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 21:18 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 21:04 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 21:04 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 21:04 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/12/12 14:33 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/12/12 14:33 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/12/12 14:33 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 21:29 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 21:29 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 21:29 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-004
ClientSample ID: Well 714
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 10:15:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0060	mg/L		0.0003	EPA 200.8	03/22/2013 1309	MS
Uranium Activity	4.1	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 2019	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1604	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1604	SH
Polonium 210	ND	pCi/L		1	OTW01	04/07/2013 1454	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1454	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 1211	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 1211	MB
Thorium 229 Tracer (30-120)	50.4	%			ACW10	04/03/2013 1211	MB
Radionuclides - Suspended							
Lead 210	3.5	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	2.9	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	0.9	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 813	MB
Thorium 229 Tracer (30-120)	79.1	%			ACW10	04/12/2013 813	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-011
Client Sample ID: Well #715

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0058	mg/L		0.0003		E200.8	07/09/12 19:38 / cp
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:38 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:17 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:17 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 15:42 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 15:42 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 15:42 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/18/12 00:01 / gb
Radium 226 precision (±)	0.10	pCi/L				E903.0	07/18/12 00:01 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/18/12 00:01 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 06:25 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 06:25 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 06:25 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 15:18 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/17/12 15:18 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 15:18 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-010
Client Sample ID: Well #716

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0059	mg/L		0.0003		E200.8	07/09/12 19:37 / cp
Uranium, Activity	4.0E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:37 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:04 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:04 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 14:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 14:00 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 14:00 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/23/12 08:12 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/23/12 08:12 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/23/12 08:12 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/18/12 00:01 / gb
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/18/12 00:01 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/18/12 00:01 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 05:37 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 05:37 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 05:37 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 15:18 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/17/12 15:18 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 15:18 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-013
Client Sample ID: Well #719

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0072	mg/L		0.0003		E200.8	07/09/12 19:48 / cp
Uranium, Activity	4.9E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:48 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:20 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:20 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 19:06 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 19:06 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 19:06 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/18/12 00:01 / gb
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/18/12 00:01 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/18/12 00:01 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 08:00 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 08:00 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 08:00 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	07/17/12 15:18 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/17/12 15:18 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	07/17/12 15:18 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-006
ClientSample ID: Well 719
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	157	mg/L		5	SM 2320B	09/22/2012 2312	KV
Alkalinity, Bicarbonate as HCO3	188	mg/L		5	SM 2320B	09/22/2012 2312	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/22/2012 2312	KV
Chloride	<1	mg/L		1	EPA 300.0	09/24/2012 2126	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/22/2012 2312	KV
Nitrogen, Nitrate+Nitrite (as N)	1.3	mg/L		0.1	EPA 353.2	09/24/2012 1625	RH
Sulfate	6	mg/L		1	EPA 300.0	10/02/2012 1541	AM
Calcium	32	mg/L		1	EPA 200.7	09/24/2012 1716	DG
Magnesium	8	mg/L		1	EPA 200.7	10/02/2012 1530	DG
Potassium	3	mg/L		1	EPA 200.7	09/24/2012 1716	DG
Sodium	20	mg/L		1	EPA 200.7	09/24/2012 1716	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1539	RH
Silica as SiO2	67	mg/L		1	EPA 200.7	09/24/2012 1716	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2012 2312	KV
Electrical Conductivity	299	µmhos/cm		1	SM 2510B	09/22/2012 2312	KV
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	09/21/2012 1619	JCG
Data Quality							
Cation Sum	3.24	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.38	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	2.10	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.92	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-006
ClientSample ID: Well 719
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1716	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	09/21/2012 2018	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2018	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1716	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2018	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1716	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2018	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1716	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2018	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1716	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1153	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2018	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1716	DG
[redacted]lenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2018	MS
[redacted]nium	0.0087	mg/L		0.0003	EPA 200.8	09/21/2012 2018	MS
Uranium Activity	5.9	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2018	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	09/24/2012 1716	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2229	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.4	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	88.9	%		0.2	ACW10	10/08/2012 928	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

[redacted]viewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-006
ClientSample ID: Well 719
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.3	pCi/L	B	1	OTW01	10/19/2012 1302	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L	B		OTW01	10/19/2012 1302	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1217	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/18/2012 1217	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	69.5	%		0.2	ACW10	10/13/2012 756	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-015
Client Sample ID: 719

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0065	mg/L		0.0003		E200.8	12/20/12 18:32 / cp
Uranium, Activity	4.4E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:32 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 21:20 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 21:20 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 23:18 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 23:18 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 23:18 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.9	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/12/12 14:33 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/12/12 14:33 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/12/12 14:33 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 23:11 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 23:11 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 23:11 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:07 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:07 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:07 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-002
ClientSample ID: Well 719
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 1:15:00 PM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0060	mg/L		0.0003	EPA 200.8	03/21/2013 1345	MS
Uranium Activity	4.1	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/22/2013 1902	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 907	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 907	SH
Polonium 210	ND	pCi/L		1	OTW01	04/04/2013 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/04/2013 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 819	MB
Thorium 229 Tracer (30-120)	62.8	pCi/L			ACW10	04/02/2013 819	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 1224	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 1224	MB
Thorium 229 Tracer (30-120)	59.5	pCi/L			ACW10	04/02/2013 1224	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-025
Client Sample ID: Well #720

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0067	mg/L		0.0003		E200.8	06/29/12 18:10 / cp
Uranium, Activity	4.6E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:10 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:31 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:31 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/12/12 21:27 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/12/12 21:27 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/12/12 21:27 / eli-cs
Polonium 210	1.5	pCi/L		0.7		E912.0	07/05/12 14:52 / dmf
Polonium 210 precision (±)	0.9	pCi/L				E912.0	07/05/12 14:52 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	07/05/12 14:52 / dmf
Radium 226	<0.18	pCi/L	U	0.18		E903.0	07/04/12 06:28 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/04/12 06:28 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	07/04/12 06:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 12:59 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 12:59 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 12:59 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-016
ClientSample ID: Well 720
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0073	mg/L		0.0003	EPA 200.8	09/21/2012 145	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1553	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	80.4	%		0.2	ACW10	10/15/2012 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	79.2	%		0.2	ACW10	10/15/2012 918	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-016
ClientSample ID: Well 720
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0073	mg/L		0.0003	EPA 200.8	09/21/2012 145	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1553	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	80.4	%		0.2	ACW10	10/15/2012 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	79.2	%		0.2	ACW10	10/15/2012 918	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-016
Client Sample ID: 720

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0082	mg/L		0.0003		E200.8	12/20/12 18:33 / cp
Uranium, Activity	5.6E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:33 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 21:22 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 21:22 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/21/12 01:33 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/21/12 01:33 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/21/12 01:33 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/12/12 16:09 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/12/12 16:09 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	12/12/12 16:09 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/26/12 00:53 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/26/12 00:53 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/26/12 00:53 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/17/12 12:17 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/17/12 12:17 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	12/17/12 12:17 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/20/12 17:21 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 17:21 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/20/12 17:21 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:07 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:07 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:07 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-005
ClientSample ID: Well 720
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 8:47:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0077	mg/L		0.0003	EPA 200.8	03/22/2013 1314	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 2024	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1604	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1604	SH
Polonium 210	ND	pCi/L		1	OTW01	04/07/2013 1454	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1454	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 1211	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 1211	MB
Thorium 229 Tracer (30-120)	44.6	%			ACW10	04/03/2013 1211	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 813	MB
Thorium 229 Tracer (30-120)	74.8	%			ACW10	04/12/2013 813	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-006
Client Sample ID: Well #721

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0074	mg/L		0.0003		E200.8	07/09/12 19:25 / cp
Uranium, Activity	5.0E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:25 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:57 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:57 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 07:12 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 07:12 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 07:12 / eli-cs
Polonium 210	<1.7	pCi/L	U	1.7		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	1.0	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	1.7	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	1.3	pCi/L		0.18		E903.0	07/17/12 22:23 / gb
Radium 226 precision (±)	0.26	pCi/L				E903.0	07/17/12 22:23 / gb
Radium 226 MDC	0.18	pCi/L				E903.0	07/17/12 22:23 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
- See Case Narrative regarding Po210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 02:27 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 02:27 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 02:27 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-006
ClientSample ID: Well 721
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0055	mg/L		0.0003	EPA 200.8	09/21/2012 031	MS
Uranium Activity	3.7	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1445	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	10/10/2012 1351	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	10/10/2012 1351	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1057	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1057	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	71.4	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	90.0	%		0.2	ACW10	10/16/2012 1046	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-006
ClientSample ID: Well 721
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0055	mg/L		0.0003	EPA 200.8	09/21/2012 031	MS
Uranium Activity	3.7	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1445	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	10/10/2012 1351	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	10/10/2012 1351	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1057	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1057	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	71.4	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	90.0	%		0.2	ACW10	10/16/2012 1046	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-017
Client Sample ID: 721

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0056	mg/L		0.0003		E200.8	12/20/12 18:35 / cp
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:35 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/26/12 19:08 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/26/12 19:08 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/21/12 03:48 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/21/12 03:48 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/21/12 03:48 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.9	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 16:09 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/12/12 16:09 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 16:09 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/26/12 02:36 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/26/12 02:36 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/26/12 02:36 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/17/12 12:17 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/17/12 12:17 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/17/12 12:17 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 17:21 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/20/12 17:21 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 17:21 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:07 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:07 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:07 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-001
ClientSample ID: Well 721
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 1:25:00 PM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0054	mg/L		0.0003	EPA 200.8	03/21/2013 1340	MS
Uranium Activity	3.7	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/22/2013 1833	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	1.0	pCi/L		1	OTW01	04/05/2013 907	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/05/2013 907	SH
Polonium 210	ND	pCi/L		1	OTW01	04/04/2013 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/04/2013 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 819	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 819	MB
Thorium 229 Tracer (30-120)	62.1	pCi/L			ACW10	04/02/2013 819	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 1224	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 1224	MB
Thorium 229 Tracer (30-120)	75.1	pCi/L			ACW10	04/02/2013 1224	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-012
Client Sample ID: Well #722

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0088	mg/L		0.0003		E200.8	07/09/12 19:47 / cp
Uranium, Activity	6.0E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:47 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:19 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:19 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 17:24 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 17:24 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 17:24 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/18/12 00:01 / gb
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/18/12 00:01 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/18/12 00:01 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 07:12 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 07:12 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 07:12 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 15:18 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/17/12 15:18 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 15:18 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-015
ClientSample ID: Well 722
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0061	mg/L		0.0003	EPA 200.8	09/21/2012 140	MS
Uranium Activity	4.1	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1549	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	89.0	%		0.2	ACW10	10/15/2012 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	68.3	%		0.2	ACW10	10/17/2012 844	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-015
ClientSample ID: Well 722
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0061	mg/L		0.0003	EPA 200.8	09/21/2012 140	MS
Uranium Activity	4.1	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1549	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	89.0	%		0.2	ACW10	10/15/2012 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	68.3	%		0.2	ACW10	10/17/2012 844	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-018
Client Sample ID: 722

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0086	mg/L		0.0003		E200.8	12/20/12 18:43 / cp
Uranium, Activity	5.8E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:43 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/26/12 19:25 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/26/12 19:25 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/21/12 06:02 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/21/12 06:02 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/21/12 06:02 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.9	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 16:09 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/12/12 16:09 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 16:09 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/26/12 04:18 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/26/12 04:18 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/26/12 04:18 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/17/12 12:17 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/17/12 12:17 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/17/12 12:17 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 17:21 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/20/12 17:21 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 17:21 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/12/12 10:07 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/12/12 10:07 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/12/12 10:07 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-006
ClientSample ID: Well 722
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 8:20:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0084	mg/L		0.0003	EPA 200.8	03/22/2013 1319	MS
Uranium Activity	5.7	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 2029	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.6	pCi/L		1	OTW01	04/07/2013 1604	SH
Lead 210 Precision (±)	0.7	pCi/L			OTW01	04/07/2013 1604	SH
Polonium 210	ND	pCi/L		1	OTW01	04/07/2013 1454	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1454	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 822	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 822	MB
Thorium 229 Tracer (30-120)	43.2	%			ACW10	04/04/2013 822	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 813	MB
Thorium 229 Tracer (30-120)	79.0	%			ACW10	04/12/2013 813	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-018
Client Sample ID: Well #723

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0056	mg/L		0.0003		E200.8	06/29/12 17:46 / cp
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:46 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:07 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:07 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/11/12 21:59 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/11/12 21:59 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/11/12 21:59 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.16	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 07:26 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 07:26 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 07:26 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/16/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 15:50 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/16/12 15:50 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 08:30 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/18/12 08:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 08:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-004
ClientSample ID: Well 723
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0078	mg/L		0.0003	EPA 200.8	09/21/2012 021	MS
Uranium Activity	5.3	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1438	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	10/10/2012 1351	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	10/10/2012 1351	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1057	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1057	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/11/2012 816	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/11/2012 816	MB
Thorium 229 Tracer (30-120)	71.0	%		0.2	ACW10	10/11/2012 816	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	91.4	%		0.2	ACW10	10/16/2012 1046	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-001
Client Sample ID: 723 (B. Chapman)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	156	mg/L		1		A2320 B	04/05/11 22:34 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/05/11 22:34 / jba
Bicarbonate as HCO3	191	mg/L		1		A2320 B	04/05/11 22:34 / jba
Calcium	33	mg/L		1		E200.7	04/07/11 22:58 / cp
Chloride	2	mg/L		1		E300.0	04/08/11 04:19 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/08/11 09:32 / jba
Magnesium	8	mg/L		1		E200.7	04/07/11 22:58 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/06/11 15:04 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	04/07/11 13:51 / dc
Potassium	4	mg/L		1		E200.7	04/07/11 22:58 / cp
Silica	80.8	mg/L		0.2		E200.7	04/07/11 22:58 / cp
Sodium	20	mg/L		1		E200.7	04/07/11 22:58 / cp
Sulfate	9	mg/L		1		E300.0	04/08/11 04:19 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	310	umhos/cm		1		A2510 B	04/05/11 14:57 / lr
pH	7.76	s.u.		0.01		A4500-H B	04/05/11 14:57 / lr
Solids, Total Dissolved TDS @ 180 C	228	mg/L		10		A2540 C	04/05/11 15:36 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/07/11 07:57 / sml
Arsenic	0.006	mg/L		0.001		E200.8	04/07/11 07:57 / sml
Barium	0.1	mg/L		0.1		E200.8	04/07/11 07:57 / sml
Boron	ND	mg/L		0.1		E200.8	04/07/11 07:57 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/07/11 07:57 / sml
Chromium	ND	mg/L		0.05		E200.8	04/07/11 07:57 / sml
Copper	0.05	mg/L		0.01		E200.8	04/07/11 07:57 / sml
Iron	ND	mg/L		0.03		E200.8	04/07/11 07:57 / sml
Lead	0.002	mg/L		0.001		E200.8	04/07/11 07:57 / sml
Manganese	ND	mg/L		0.01		E200.8	04/07/11 07:57 / sml
Mercury	ND	mg/L		0.001		E200.8	04/07/11 07:57 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/07/11 07:57 / sml
Nickel	ND	mg/L		0.05		E200.8	04/07/11 07:57 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/07/11 07:57 / sml
Uranium	0.0078	mg/L		0.0003		E200.8	04/07/11 07:57 / sml
Uranium, Activity	5.3E-09	uCi/mL		2.0E-10		E200.8	04/07/11 07:57 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/07/11 07:57 / sml
Zinc	0.21	mg/L		0.01		E200.8	04/07/11 07:57 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 15:45 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 15:45 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-001
Client Sample ID: 723 (B. Chapman)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0	05/10/11 16:54 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0	05/10/11 16:54 / eli-cs
Lead 210 MDC	1.6	pCi/L				E909.0	05/10/11 16:54 / eli-cs
Polonium 210	0.8	pCi/L		0.5		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.6	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.2	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/02/11 09:12 / dmf
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/07/11 01:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/07/11 01:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/07/11 01:00 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/26/11 01:26 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/26/11 01:26 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	04/26/11 01:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/27/11 15:28 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/27/11 15:28 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/27/11 15:28 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.04	%				Calculation	04/12/11 13:19 / kbh
Anions	3.47	meq/L				Calculation	04/12/11 13:19 / kbh
Cations	3.33	meq/L				Calculation	04/12/11 13:19 / kbh
Solids, Total Dissolved Calculated	277	mg/L				Calculation	04/12/11 13:19 / kbh
TDS Balance (0.80 - 1.20)	0.820					Calculation	04/12/11 13:19 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-002
Client Sample ID: Well #723

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	07/07/11 03:14 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	07/07/11 03:14 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	07/07/11 03:14 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/07/11 09:07 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/07/11 09:07 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	07/07/11 09:07 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	06/27/11 12:03 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/27/11 12:03 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	06/27/11 12:03 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/30/11 10:26 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/30/11 10:26 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/30/11 10:26 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/11 14:47 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/11 14:47 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/11 14:47 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/05/11 09:58 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/05/11 09:58 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	07/05/11 09:58 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/05/11 23:13 / dmf
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/05/11 23:13 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	07/05/11 23:13 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/28/11 09:02 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/28/11 09:02 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/28/11 09:02 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.463	%				Calculation	06/27/11 09:16 / kbh
Anions	3.53	meq/L				Calculation	06/27/11 09:16 / kbh
Cations	3.50	meq/L				Calculation	06/27/11 09:16 / kbh
Solids, Total Dissolved Calculated	277	mg/L				Calculation	06/27/11 09:16 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	06/27/11 09:16 / kbh

Report Definitions:
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MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-002
Client Sample ID: Well #723

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	159	mg/L		1		A2320 B	06/17/11 12:24 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	06/17/11 12:24 / jba
Bicarbonate as HCO3	194	mg/L		1		A2320 B	06/17/11 12:24 / jba
Calcium	38	mg/L		1		E200.7	06/24/11 23:12 / cp
Chloride	3	mg/L		1		E300.0	06/18/11 16:04 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	06/16/11 14:03 / jba
Magnesium	9	mg/L		1		E200.7	06/24/11 23:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	06/17/11 15:03 / dc
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	06/16/11 14:24 / dc
Potassium	3	mg/L		1		E200.7	06/24/11 23:12 / cp
Silica	77.3	mg/L		0.2		E200.7	06/24/11 23:12 / cp
Sodium	17	mg/L		1		E200.7	06/24/11 23:12 / cp
Sulfate	8	mg/L		1		E300.0	06/18/11 16:04 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	304	umhos/cm		1		A2510 B	06/16/11 14:52 / wc
pH	7.77	s.u.		0.01		A4500-H B	06/16/11 14:52 / wc
Solids, Total Dissolved TDS @ 180 C	240	mg/L		10		A2540 C	06/16/11 16:49 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/17/11 21:41 / sml
Arsenic	0.007	mg/L		0.001		E200.8	06/17/11 21:41 / sml
Barium	0.1	mg/L		0.1		E200.8	06/17/11 21:41 / sml
Boron	ND	mg/L		0.1		E200.7	06/24/11 23:12 / cp
Cadmium	ND	mg/L		0.005		E200.8	06/17/11 21:41 / sml
Chromium	ND	mg/L		0.05		E200.8	06/17/11 21:41 / sml
Copper	ND	mg/L		0.01		E200.8	06/17/11 21:41 / sml
Iron	ND	mg/L		0.03		E200.7	06/24/11 23:12 / cp
Lead	ND	mg/L		0.001		E200.8	06/17/11 21:41 / sml
Manganese	ND	mg/L		0.01		E200.8	06/17/11 21:41 / sml
Mercury	ND	mg/L		0.001		E200.8	06/17/11 21:41 / sml
Molybdenum	ND	mg/L		0.1		E200.8	06/17/11 21:41 / sml
Nickel	ND	mg/L		0.05		E200.8	06/17/11 21:41 / sml
Selenium	0.002	mg/L		0.001		E200.8	06/17/11 21:41 / sml
Uranium	0.0071	mg/L		0.0003		E200.8	06/17/11 21:41 / sml
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	06/17/11 21:41 / sml
Vanadium	ND	mg/L		0.1		E200.8	06/17/11 21:41 / sml
Zinc	0.03	mg/L		0.01		E200.8	06/17/11 21:41 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/23/11 03:19 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/23/11 03:19 / sml

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-004
Client Sample ID: Well #723

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	154	mg/L		1		A2320 B	09/27/11 17:20 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 17:20 / jba
Bicarbonate as HCO3	187	mg/L		1		A2320 B	09/27/11 17:20 / jba
Calcium	34	mg/L		1		E200.7	10/26/11 17:31 / cp
Chloride	3	mg/L		1		E300.0	10/05/11 03:44 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	09/28/11 10:30 / jba
Magnesium	8	mg/L		1		E200.7	10/26/11 17:31 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 15:56 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	10/20/11 11:46 / ljl
Potassium	3	mg/L		1		E200.7	10/26/11 17:31 / cp
Silica	78.3	mg/L		0.2		E200.7	10/26/11 17:31 / cp
Sodium	17	mg/L		1		E200.7	10/26/11 17:31 / cp
Sulfate	9	mg/L		1		E300.0	10/05/11 03:44 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	308	umhos/cm		1		A2510 B	09/27/11 15:33 / lmc
pH	7.99	s.u.		0.01		A4500-H B	09/27/11 15:33 / lmc
Solids, Total Dissolved TDS @ 180 C	235	mg/L		10		A2540 C	09/27/11 17:19 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:31 / cp
Arsenic	0.007	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Barium	0.1	mg/L		0.1		E200.8	10/11/11 04:58 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:31 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:58 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:31 / cp
Copper	0.04	mg/L		0.01		E200.8	10/11/11 04:58 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:31 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:16 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:58 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:58 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Uranium	0.0073	mg/L		0.0003		E200.8	11/04/11 00:21 / sml
Uranium, Activity	5.0E-09	uCi/mL		2.0E-10		E200.8	11/04/11 00:21 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:16 / cp
Zinc	0.10	mg/L		0.01		E200.7	10/26/11 17:31 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:27 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:27 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-004
Client Sample ID: Well #723

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/19/11 14:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 14:40 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/19/11 14:40 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	0.2	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 16:37 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 16:37 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 16:37 / eli-cs
Polonium 210	<0.1	pCi/L	U	0.1		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.07	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.11	%				Calculation	11/02/11 12:38 / kbh
Anions	3.41	meq/L				Calculation	11/02/11 12:38 / kbh
Cations	3.21	meq/L				Calculation	11/02/11 12:38 / kbh
Solids, Total Dissolved Calculated	269	mg/L				Calculation	11/02/11 12:38 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	11/02/11 12:38 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120731-001
Client Sample ID: Well #723

Report Date: 02/28/12
Collection Date: 12/20/11
DateReceived: 12/23/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	149	mg/L		1		A2320 B	12/28/11 14:33 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/28/11 14:33 / jba
Bicarbonate as HCO3	182	mg/L		1		A2320 B	12/28/11 14:33 / jba
Calcium	34	mg/L		1		E200.8	12/30/11 20:04 / sml
Chloride	2	mg/L		1		E300.0	12/30/11 02:22 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/29/11 12:17 / jba
Magnesium	9	mg/L		1		E200.8	12/30/11 20:04 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/29/11 16:24 / dc
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	12/23/11 14:15 / dc
Potassium	3	mg/L		1		E200.8	12/30/11 20:04 / sml
Silica	75.6	mg/L		0.2		E200.7	01/14/12 13:02 / cp
Sodium	22	mg/L		1		E200.8	12/30/11 20:04 / sml
Sulfate	9	mg/L		1		E300.0	12/30/11 02:22 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	306	umhos/cm		1		A2510 B	12/28/11 09:13 / wc
pH	7.72	s.u.	H	0.01		A4500-H B	12/28/11 09:13 / wc
Solids, Total Dissolved TDS @ 180 C	215	mg/L		10		A2540 C	12/23/11 12:32 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Arsenic	0.006	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 20:04 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 20:04 / sml
Copper	0.06	mg/L		0.01		E200.8	12/30/11 20:04 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 20:04 / sml
Lead	ND	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 20:04 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/11/12 16:34 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 20:04 / sml
Selenium	0.001	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Uranium	0.0058	mg/L		0.0003		E200.8	12/30/11 20:04 / sml
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	12/30/11 20:04 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Zinc	0.19	mg/L		0.01		E200.8	12/30/11 20:04 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/30/11 21:07 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/30/11 21:07 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120731-001
Client Sample ID: Well #723

Report Date: 02/28/12
Collection Date: 12/20/11
DateReceived: 12/23/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.0	pCi/L	U	1.0		E909.0	01/07/12 04:43 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	01/07/12 04:43 / eli-cs
Lead 210 MDC	1.0	pCi/L				E909.0	01/07/12 04:43 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	01/27/12 10:10 / plj
Polonium 210 precision (±)	0.7	pCi/L				E912.0	01/27/12 10:10 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	01/27/12 10:10 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	01/09/12 12:56 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/09/12 12:56 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	01/09/12 12:56 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/12/12 09:23 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/12/12 09:23 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/12/12 09:23 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/08/12 17:15 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/08/12 17:15 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/08/12 17:15 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 14:30 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	01/09/12 14:30 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 14:30 / trs
Thorium 230	0.1	pCi/L		0.04		E908.0	01/06/12 19:17 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	01/06/12 19:17 / dmf
Thorium 230 MDC	0.04	pCi/L				E908.0	01/06/12 19:17 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.91	%				Calculation	01/04/12 08:43 / kbh
Anions	3.31	meq/L				Calculation	01/04/12 08:43 / kbh
Cations	3.44	meq/L				Calculation	01/04/12 08:43 / kbh
Solids, Total Dissolved Calculated	172	mg/L				Calculation	01/04/12 08:43 / kbh
TDS Balance (0.80 - 1.20)	1.24					Calculation	01/04/12 08:43 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-005
Client Sample ID: 725 (B. Chapman)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	149	mg/L		1		A2320 B	04/05/11 23:07 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/05/11 23:07 / jba
Bicarbonate as HCO3	181	mg/L		1		A2320 B	04/05/11 23:07 / jba
Calcium	30	mg/L		1		E200.7	04/08/11 00:11 / cp
Chloride	2	mg/L		1		E300.0	04/08/11 06:23 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	04/08/11 09:53 / jba
Magnesium	6	mg/L		1		E200.7	04/08/11 00:11 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/06/11 15:18 / dc
Nitrogen, Nitrate+Nitrite as N	0.6	mg/L		0.1		E353.2	04/07/11 14:08 / dc
Potassium	5	mg/L		1		E200.7	04/08/11 00:11 / cp
Silica	64.4	mg/L		0.2		E200.7	04/08/11 00:11 / cp
Sodium	33	mg/L		1		E200.7	04/08/11 00:11 / cp
Sulfate	19	mg/L		1		E300.0	04/08/11 06:23 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	313	umhos/cm		1		A2510 B	04/05/11 15:08 / lr
pH	7.95	s.u.		0.01		A4500-H B	04/05/11 15:08 / lr
Solids, Total Dissolved TDS @ 180 C	230	mg/L		10		A2540 C	04/05/11 15:38 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/07/11 08:52 / sml
Arsenic	0.003	mg/L		0.001		E200.8	04/07/11 08:52 / sml
Barium	ND	mg/L		0.1		E200.8	04/07/11 08:52 / sml
Boron	ND	mg/L		0.1		E200.8	04/07/11 08:52 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/07/11 08:52 / sml
Chromium	ND	mg/L		0.05		E200.8	04/07/11 08:52 / sml
Copper	ND	mg/L		0.01		E200.8	04/07/11 08:52 / sml
Iron	0.08	mg/L		0.03		E200.8	04/07/11 08:52 / sml
Lead	ND	mg/L		0.001		E200.8	04/07/11 08:52 / sml
Manganese	ND	mg/L		0.01		E200.8	04/07/11 08:52 / sml
Mercury	ND	mg/L		0.001		E200.8	04/07/11 08:52 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/07/11 08:52 / sml
Nickel	ND	mg/L		0.05		E200.8	04/07/11 08:52 / sml
Selenium	ND	mg/L		0.001		E200.8	04/07/11 08:52 / sml
Uranium	0.0071	mg/L		0.0003		E200.8	04/07/11 08:52 / sml
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	04/07/11 08:52 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/07/11 08:52 / sml
Zinc	0.32	mg/L		0.01		E200.8	04/07/11 08:52 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 16:01 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 16:01 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-005
Client Sample ID: 725 (B. Chapman)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 06:03 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 06:03 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 06:03 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.2	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 14:08 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 14:08 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 14:08 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/26/11 03:02 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/26/11 03:02 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 03:02 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/27/11 15:28 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/27/11 15:28 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/27/11 15:28 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.00531	%				Calculation	04/12/11 13:48 / kbh
Anions	3.50	meq/L				Calculation	04/12/11 13:48 / kbh
Cations	3.50	meq/L				Calculation	04/12/11 13:48 / kbh
Solids, Total Dissolved Calculated	268	mg/L				Calculation	04/12/11 13:48 / kbh
TDS Balance (0.80 - 1.20)	0.860					Calculation	04/12/11 13:48 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060795-001
Client Sample ID: Well #725

Report Date: 07/20/11
Collection Date: 06/15/11
DateReceived: 06/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	149	mg/L		1		A2320 B	06/22/11 10:56 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	06/22/11 10:56 / jba
Bicarbonate as HCO3	182	mg/L		1		A2320 B	06/22/11 10:56 / jba
Calcium	29	mg/L		1		E200.8	06/24/11 06:08 / sml
Chloride	3	mg/L		1		E300.0	06/23/11 04:35 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	06/23/11 09:00 / jba
Magnesium	7	mg/L		1		E200.8	06/24/11 06:08 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	06/27/11 12:55 / dc
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	06/21/11 13:34 / dc
Potassium	4	mg/L		1		E200.8	06/24/11 06:08 / sml
Silica	72.2	mg/L		0.2		E200.7	06/27/11 14:47 / cp
Sodium	26	mg/L		1		E200.8	06/24/11 06:08 / sml
Sulfate	11	mg/L		1		E300.0	06/23/11 04:35 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	296	umhos/cm		1		A2510 B	06/20/11 15:46 / lmc
pH	8.15	s.u.		0.01		A4500-H B	06/20/11 15:46 / lmc
Solids, Total Dissolved TDS @ 180 C	234	mg/L		10		A2540 C	06/20/11 16:38 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	06/27/11 14:47 / cp
Arsenic	0.006	mg/L		0.001		E200.8	06/24/11 06:08 / sml
Barium	ND	mg/L		0.1		E200.8	06/24/11 06:08 / sml
Boron	ND	mg/L		0.1		E200.7	06/27/11 14:47 / cp
Cadmium	ND	mg/L		0.005		E200.8	06/24/11 06:08 / sml
Chromium	ND	mg/L		0.05		E200.8	06/24/11 06:08 / sml
Copper	ND	mg/L		0.01		E200.8	06/24/11 06:08 / sml
Iron	0.06	mg/L		0.03		E200.8	06/24/11 06:08 / sml
Lead	ND	mg/L		0.001		E200.8	06/24/11 06:08 / sml
Manganese	ND	mg/L		0.01		E200.8	06/24/11 06:08 / sml
Mercury	ND	mg/L		0.001		E200.8	06/24/11 06:08 / sml
Molybdenum	ND	mg/L		0.1		E200.8	06/24/11 06:08 / sml
Nickel	ND	mg/L		0.05		E200.8	06/24/11 06:08 / sml
Selenium	0.001	mg/L		0.001		E200.8	06/24/11 06:08 / sml
Uranium	0.0065	mg/L		0.0003		E200.8	06/30/11 21:52 / sml
Uranium, Activity	4.4E-09	uCi/mL		2.0E-10		E200.8	06/30/11 21:52 / sml
Vanadium	ND	mg/L		0.1		E200.8	06/24/11 06:08 / sml
Zinc	0.29	mg/L		0.01		E200.8	06/24/11 06:08 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/23/11 03:52 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/23/11 03:52 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060795-001
Client Sample ID: Well #725

Report Date: 07/20/11
Collection Date: 06/15/11
DateReceived: 06/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/08/11 18:55 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/08/11 18:55 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/08/11 18:55 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/07/11 11:17 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/07/11 11:17 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	07/07/11 11:17 / ep
Radium 226	0.3	pCi/L		0.09		E903.0	07/06/11 01:13 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	07/06/11 01:13 / trs
Radium 226 MDC	0.09	pCi/L				E903.0	07/06/11 01:13 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/12/11 08:44 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/12/11 08:44 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/12/11 08:44 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/11 23:33 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	07/09/11 23:33 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/11 23:33 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/05/11 09:58 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	07/05/11 09:58 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	07/05/11 09:58 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/05/11 23:13 / dmf
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/05/11 23:13 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	07/05/11 23:13 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/28/11 09:02 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	06/28/11 09:02 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/28/11 09:02 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.80	%				Calculation	06/27/11 10:27 / kbh
Anions	3.42	meq/L				Calculation	06/27/11 10:27 / kbh
Cations	3.23	meq/L				Calculation	06/27/11 10:27 / kbh
Solids, Total Dissolved Calculated	174	mg/L				Calculation	06/27/11 10:27 / kbh
TDS Balance (0.80 - 1.20)	1.34					Calculation	06/27/11 10:27 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11091177-001
Client Sample ID: Well #725

Report Date: 11/11/11
Collection Date: 09/29/11
DateReceived: 09/30/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	156	mg/L		1		A2320 B	10/01/11 04:39 / jba
Carbonate as CO3	4	mg/L		1		A2320 B	10/01/11 04:39 / jba
Bicarbonate as HCO3	182	mg/L		1		A2320 B	10/01/11 04:39 / jba
Calcium	30	mg/L		1		E200.8	11/04/11 03:03 / sml
Chloride	3	mg/L		1		E300.0	10/09/11 06:26 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	10/03/11 10:53 / jba
Magnesium	7	mg/L		1		E200.8	11/04/11 03:03 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/14/11 17:07 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	10/21/11 23:25 / ljl
Potassium	4	mg/L		1		E200.8	11/04/11 03:03 / sml
Silica	72.0	mg/L		0.2		E200.7	10/26/11 17:59 / cp
Sodium	25	mg/L		1		E200.8	11/04/11 03:03 / sml
Sulfate	13	mg/L		1		E300.0	10/09/11 06:26 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	309	umhos/cm		1		A2510 B	10/03/11 09:21 / lmc
pH	8.00	s.u.		0.01		A4500-H B	10/03/11 09:21 / lmc
Solids, Total Dissolved TDS @ 180 C	248	mg/L		10		A2540 C	10/03/11 16:35 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Arsenic	0.005	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Barium	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Cadmium	ND	mg/L		0.005		E200.7	10/26/11 17:59 / cp
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:59 / cp
Copper	ND	mg/L		0.01		E200.8	11/04/11 03:03 / sml
Iron	0.04	mg/L		0.03		E200.7	10/26/11 17:59 / cp
Lead	ND	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Manganese	ND	mg/L		0.01		E200.8	11/04/11 03:03 / sml
Mercury	ND	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Molybdenum	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Nickel	ND	mg/L		0.05		E200.8	11/04/11 03:03 / sml
Selenium	ND	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Uranium	0.0061	mg/L		0.0003		E200.8	11/04/11 03:03 / sml
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	11/04/11 03:03 / sml
Vanadium	ND	mg/L		0.1		E200.8	11/04/11 03:03 / sml
Zinc	0.18	mg/L		0.01		E200.7	10/26/11 17:59 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/08/11 01:41 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/08/11 01:41 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11091177-001
Client Sample ID: Well #725

Report Date: 11/11/11
Collection Date: 09/29/11
DateReceived: 09/30/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/20/11 00:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/20/11 00:40 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/20/11 00:40 / eli-cs
Polonium 210	1	pCi/L		0.5		E912.0	10/14/11 11:17 / ep
Polonium 210 precision (±)	0.6	pCi/L				E912.0	10/14/11 11:17 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/14/11 11:17 / ep
Radium 226	0.3	pCi/L		0.1		E903.0	10/17/11 17:31 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 17:31 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/17/11 17:31 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:40 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	11/04/11 08:40 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:40 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/29/11 01:07 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/29/11 01:07 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/29/11 01:07 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 16:56 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	10/28/11 16:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 16:56 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/18/11 00:00 / js
Radium 226 precision (±)	0.03	pCi/L				E903.0	10/18/11 00:00 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/18/11 00:00 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	11/04/11 13:16 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	11/04/11 13:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	11/04/11 13:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	-5.17	%				Calculation	11/09/11 09:00 / kbh
Anions	3.56	meq/L				Calculation	11/09/11 09:00 / kbh
Cations	3.21	meq/L				Calculation	11/09/11 09:00 / kbh
Solids, Total Dissolved Calculated	270	mg/L				Calculation	11/09/11 09:00 / kbh
TDS Balance (0.80 - 1.20)	0.920					Calculation	11/09/11 09:00 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-006
Client Sample ID: Well #725

Report Date: 02/28/12
Collection Date: 12/16/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	141	mg/L		1		A2320 B	12/20/11 19:25 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 19:25 / jba
Bicarbonate as HCO3	172	mg/L		1		A2320 B	12/20/11 19:25 / jba
Calcium	33	mg/L		1		E200.8	12/22/11 00:09 / sml
Chloride	2	mg/L		1		E300.0	12/28/11 10:42 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	12/22/11 12:16 / jba
Magnesium	6	mg/L		1		E200.8	12/22/11 00:09 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:24 / dc
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	12/21/11 13:23 / dc
Potassium	4	mg/L		1		E200.8	12/22/11 00:09 / sml
Silica	68.4	mg/L		0.2		E200.7	01/12/12 18:38 / cp
Sodium	31	mg/L		1		E200.8	12/22/11 00:09 / sml
Sulfate	16	mg/L		1		E300.0	12/28/11 10:42 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	241	umhos/cm		1		A2510 B	12/21/11 10:48 / wc
pH	7.95	s.u.	H	0.01		A4500-H B	12/21/11 10:48 / wc
Solids, Total Dissolved TDS @ 180 C	234	mg/L		10		A2540 C	12/20/11 16:55 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 19:37 / sml
Arsenic	0.004	mg/L		0.001		E200.8	12/22/11 00:09 / sml
Barium	ND	mg/L		0.1		E200.8	12/22/11 00:09 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 19:37 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/11 00:09 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/11 00:09 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/11 00:09 / sml
Iron	0.06	mg/L		0.03		E200.8	12/30/11 19:37 / sml
Lead	ND	mg/L		0.001		E200.8	12/22/11 00:09 / sml
Manganese	0.01	mg/L		0.01		E200.8	12/22/11 00:09 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 19:37 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:38 / cp
Nickel	ND	mg/L		0.05		E200.8	12/22/11 00:09 / sml
Selenium	ND	mg/L		0.001		E200.8	12/22/11 00:09 / sml
Uranium	0.0057	mg/L		0.0003		E200.8	12/30/11 19:37 / sml
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	12/30/11 19:37 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/11 00:09 / sml
Zinc	0.24	mg/L		0.01		E200.8	12/22/11 00:09 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:26 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:26 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-006
Client Sample ID: Well #725

Report Date: 02/28/12
Collection Date: 12/16/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/02/12 04:46 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/02/12 04:46 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/02/12 04:46 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.09	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/04/12 12:18 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	01/04/12 12:18 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/04/12 12:18 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	01/07/12 20:25 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 20:25 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	01/07/12 20:25 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	4.47	%				Calculation	01/04/12 08:42 / kbh
Anions	3.30	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	3.61	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	181	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.29					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-016
Client Sample ID: Well #725

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0047	mg/L		0.0003		E200.8	06/29/12 17:36 / cp
Uranium, Activity	3.2E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:36 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:04 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:04 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/10/12 11:19 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/10/12 11:19 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/10/12 11:19 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.16	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 05:51 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 05:51 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 05:51 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	07/16/12 15:50 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/16/12 15:50 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	07/16/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:30 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/18/12 08:30 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-007
ClientSample ID: Well 725
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	146	mg/L		5	SM 2320B	10/02/2012 1259	KV
Alkalinity, Bicarbonate as HCO3	175	mg/L		5	SM 2320B	10/02/2012 1259	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	10/02/2012 1259	KV
Chloride	3	mg/L		1	EPA 300.0	10/02/2012 1553	AM
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/22/2012 2326	KV
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	09/24/2012 1632	RH
Sulfate	12	mg/L		1	EPA 300.0	10/02/2012 1553	AM
Calcium	29	mg/L		1	EPA 200.7	09/24/2012 1721	DG
Magnesium	6	mg/L		1	EPA 200.7	09/24/2012 1721	DG
Potassium	4	mg/L		1	EPA 200.7	09/24/2012 1721	DG
Sodium	27	mg/L		1	EPA 200.7	09/24/2012 1721	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1540	RH
Silica as SiO2	64	mg/L		1	EPA 200.7	09/24/2012 1721	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2012 2326	KV
Electrical Conductivity	300	µmhos/cm		1	SM 2510B	09/22/2012 2326	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	09/21/2012 1620	JCG
Data Quality							
Cation Sum	3.23	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.35	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	1.86	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-007
ClientSample ID: Well 725
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1721	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/21/2012 2023	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2023	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1721	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2023	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1721	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2023	MS
Iron	0.09	mg/L		0.03	EPA 200.7	09/24/2012 1721	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2023	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1721	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1155	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2023	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1721	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2023	MS
Uranium	0.0060	mg/L		0.0003	EPA 200.8	09/21/2012 2023	MS
Uranium Activity	4.1	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2023	MS
Zinc	0.10	mg/L		0.01	EPA 200.7	09/24/2012 1721	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2234	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.7	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	1.2	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	84.5	%		0.2	ACW10	10/08/2012 928	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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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 another laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-007
ClientSample ID: Well 725
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L	B	1	OTW01	10/19/2012 1302	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L	B		OTW01	10/19/2012 1302	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1217	SH
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	10/18/2012 1217	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	73.4	%		0.2	ACW10	10/13/2012 756	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-034
Client Sample ID: 725

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/29/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0075	mg/L		0.0003		E200.8	12/20/12 19:47 / cp
Uranium, Activity	5.1E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:47 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:25 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:25 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 21:10 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 21:10 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 21:10 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 13:10 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 13:10 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 13:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/25/12 19:43 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 19:43 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 19:43 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/18/12 13:11 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/18/12 13:11 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	12/18/12 13:11 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303348001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303348-002
ClientSample ID: Well 725
COC: Web

WorkOrder: S1303348
CollectionDate: 3/20/2013 9:35:00 AM
DateReceived: 3/22/2013 2:50:00 PM
FieldSampler: RP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0059	mg/L		0.0003	EPA 200.8	03/23/2013 115	MS
Uranium Activity	4.0	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2204	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/05/2013 1443	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/05/2013 1443	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/11/2013 1033	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/11/2013 1033	MB
Thorium 229 Tracer (30-120)	76.0	%			ACW10	04/11/2013 1033	MB
Radionuclides - Suspended							
Lead 210	1.8	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1541	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1541	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 800	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 800	MB
Thorium 229 Tracer (30-120)	44.3	%			ACW10	04/08/2013 800	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-005
Client Sample ID: Well #727

Report Date: 05/19/11
Collection Date: 03/24/11
DateReceived: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	160	mg/L		1		A2320 B	03/25/11 20:59 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	03/25/11 20:59 / jba
Bicarbonate as HCO3	195	mg/L		1		A2320 B	03/25/11 20:59 / jba
Calcium	30	mg/L		1		E200.7	04/05/11 02:35 / cp
Chloride	5	mg/L		1		E300.0	03/29/11 07:24 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	03/28/11 13:39 / jba
Magnesium	12	mg/L		1		E200.7	04/05/11 02:35 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/28/11 15:31 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	03/29/11 14:38 / dc
Potassium	4	mg/L		1		E200.7	04/05/11 02:35 / cp
Silica	77.8	mg/L		0.2		E200.7	05/11/11 14:02 / cp
Sodium	19	mg/L		1		E200.7	04/05/11 02:35 / cp
Sulfate	9	mg/L		1		E300.0	03/29/11 07:24 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	325	umhos/cm		1		A2510 B	03/25/11 15:09 / lmc
pH	8.05	s.u.		0.01		A4500-H B	03/25/11 15:09 / lmc
Solids, Total Dissolved TDS @ 180 C	243	mg/L		10		A2540 C	03/28/11 14:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:42 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:42 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:42 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:35 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:42 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:42 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Uranium	0.0102	mg/L		0.0003		E200.8	03/31/11 08:42 / sml
Uranium, Activity	6.9E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:42 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Zinc	0.28	mg/L		0.01		E200.7	04/05/11 02:35 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:18 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:18 / sml

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-005
Client Sample ID: Well #727

Report Date: 05/19/11
Collection Date: 03/24/11
DateReceived: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/26/11 00:07 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/26/11 00:07 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/26/11 00:07 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/30/11 11:18 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/30/11 11:18 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/30/11 11:18 / ep
Radium 226	0.33	pCi/L		0.12		E903.0	04/04/11 21:16 / dmf
Radium 226 precision (±)	0.13	pCi/L				E903.0	04/04/11 21:16 / dmf
Radium 226 MDC	0.12	pCi/L				E903.0	04/04/11 21:16 / dmf
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/01/11 08:43 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/01/11 08:43 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/01/11 08:43 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 18:59 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 18:59 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 18:59 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.11	pCi/L		0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.51	%				Calculation	04/07/11 12:22 / kbh
Anions	3.65	meq/L				Calculation	04/07/11 12:22 / kbh
Cations	3.47	meq/L				Calculation	04/07/11 12:22 / kbh
Solids, Total Dissolved Calculated	290	mg/L				Calculation	04/07/11 12:22 / kbh
TDS Balance (0.80 - 1.20)	0.840					Calculation	04/07/11 12:22 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060795-002
Client Sample ID: Well #727

Report Date: 07/20/11
Collection Date: 06/15/11
DateReceived: 06/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	158	mg/L		1		A2320 B	06/22/11 11:21 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	06/22/11 11:21 / jba
Bicarbonate as HCO3	193	mg/L		1		A2320 B	06/22/11 11:21 / jba
Calcium	32	mg/L		1		E200.8	06/24/11 06:14 / sml
Chloride	5	mg/L		1		E300.0	06/23/11 04:50 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	06/23/11 09:03 / jba
Magnesium	13	mg/L		1		E200.8	06/24/11 06:14 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	06/27/11 12:57 / dc
Nitrogen, Nitrate+Nitrite as N	1.3	mg/L		0.1		E353.2	06/21/11 13:36 / dc
Potassium	4	mg/L		1		E200.8	06/24/11 06:14 / sml
Silica	84.5	mg/L		0.2		E200.7	06/27/11 14:51 / cp
Sodium	20	mg/L		1		E200.8	06/24/11 06:14 / sml
Sulfate	9	mg/L		1		E300.0	06/23/11 04:50 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	312	umhos/cm		1		A2510 B	06/20/11 15:49 / lmc
pH	8.19	s.u.		0.01		A4500-H B	06/20/11 15:49 / lmc
Solids, Total Dissolved TDS @ 180 C	245	mg/L		10		A2540 C	06/20/11 16:39 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	06/27/11 14:51 / cp
Arsenic	0.003	mg/L		0.001		E200.8	06/24/11 06:14 / sml
Barium	ND	mg/L		0.1		E200.8	06/24/11 06:14 / sml
Boron	ND	mg/L		0.1		E200.7	06/27/11 14:51 / cp
Cadmium	ND	mg/L		0.005		E200.8	06/24/11 06:14 / sml
Chromium	ND	mg/L		0.05		E200.8	06/24/11 06:14 / sml
Copper	ND	mg/L		0.01		E200.8	06/24/11 06:14 / sml
Iron	0.05	mg/L		0.03		E200.8	06/24/11 06:14 / sml
Lead	ND	mg/L		0.001		E200.8	06/24/11 06:14 / sml
Manganese	ND	mg/L		0.01		E200.8	06/24/11 06:14 / sml
Mercury	ND	mg/L		0.001		E200.8	06/24/11 06:14 / sml
Molybdenum	ND	mg/L		0.1		E200.8	06/24/11 06:14 / sml
Nickel	ND	mg/L		0.05		E200.8	06/24/11 06:14 / sml
Selenium	0.003	mg/L		0.001		E200.8	06/24/11 06:14 / sml
Uranium	0.0112	mg/L		0.0003		E200.8	06/30/11 21:54 / sml
Uranium, Activity	7.6E-09	uCi/mL		2.0E-10		E200.8	06/30/11 21:54 / sml
Vanadium	ND	mg/L		0.1		E200.8	06/24/11 06:14 / sml
Zinc	0.25	mg/L		0.01		E200.8	06/24/11 06:14 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/23/11 03:56 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/23/11 03:56 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060795-002
Client Sample ID: Well #727

Report Date: 07/20/11
Collection Date: 06/15/11
DateReceived: 06/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/08/11 20:01 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/08/11 20:01 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/08/11 20:01 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/07/11 11:17 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/07/11 11:17 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	07/07/11 11:17 / ep
Radium 226	0.1	pCi/L		0.1		E903.0	07/06/11 01:13 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/06/11 01:13 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	07/06/11 01:13 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/12/11 08:44 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	07/12/11 08:44 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/12/11 08:44 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/10/11 01:44 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/10/11 01:44 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/10/11 01:44 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/05/11 09:58 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	07/05/11 09:58 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	07/05/11 09:58 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/05/11 23:13 / dmf
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/05/11 23:13 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	07/05/11 23:13 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/28/11 09:02 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/28/11 09:02 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/28/11 09:02 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.0438	%				Calculation	06/27/11 10:28 / kbh
Anions	3.61	meq/L				Calculation	06/27/11 10:28 / kbh
Cations	3.61	meq/L				Calculation	06/27/11 10:28 / kbh
Solids, Total Dissolved Calculated	183	mg/L				Calculation	06/27/11 10:28 / kbh
TDS Balance (0.80 - 1.20)	1.34					Calculation	06/27/11 10:28 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-006
Client Sample ID: Well #727

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		1		A2320 B	09/27/11 17:36 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 17:36 / jba
Bicarbonate as HCO3	182	mg/L		1		A2320 B	09/27/11 17:36 / jba
Calcium	31	mg/L		1		E200.7	10/26/11 17:39 / cp
Chloride	5	mg/L		1		E300.0	10/05/11 04:11 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	09/28/11 10:42 / jba
Magnesium	13	mg/L		1		E200.7	10/26/11 17:39 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 16:04 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L	H	0.1		E353.2	10/21/11 10:47 / dc
Potassium	4	mg/L		1		E200.7	10/26/11 17:39 / cp
Silica	81.8	mg/L		0.2		E200.7	10/26/11 17:39 / cp
Sodium	17	mg/L		1		E200.7	10/26/11 17:39 / cp
Sulfate	9	mg/L		1		E300.0	10/05/11 04:11 / ljl
- H-Original analysis was done within hold time. Data is from recheck analysis.							
PHYSICAL PROPERTIES							
Conductivity @ 25 C	325	umhos/cm		1		A2510 B	09/27/11 15:38 / lmc
pH	8.01	s.u.		0.01		A4500-H B	09/27/11 15:38 / lmc
Solids, Total Dissolved TDS @ 180 C	244	mg/L		10		A2540 C	09/27/11 17:19 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:39 / cp
Arsenic	0.003	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Barium	0.1	mg/L		0.1		E200.8	10/11/11 05:11 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:39 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 05:11 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:39 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 05:11 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:39 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:25 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 05:11 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 05:11 / sml
Selenium	0.003	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Uranium	0.0119	mg/L		0.0003		E200.8	10/11/11 05:11 / sml
Uranium, Activity	8.0E-09	uCi/mL		2.0E-10		E200.8	10/11/11 05:11 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:25 / cp
Zinc	0.30	mg/L		0.01		E200.7	10/26/11 17:39 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:29 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:29 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-006
Client Sample ID: Well #727

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/19/11 21:20 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	10/19/11 21:20 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/19/11 21:20 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	10/28/11 09:11 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	10/28/11 09:11 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/28/11 09:11 / ep
Radium 226	0.2	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 21:06 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 21:06 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 21:06 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.07	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.00487	%				Calculation	11/02/11 12:39 / kbh
Anions	3.44	meq/L				Calculation	11/02/11 12:39 / kbh
Cations	3.44	meq/L				Calculation	11/02/11 12:39 / kbh
Solids, Total Dissolved Calculated	279	mg/L				Calculation	11/02/11 12:39 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	11/02/11 12:39 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-001
Client Sample ID: Well #727

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	146	mg/L		1		A2320 B	12/20/11 18:46 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 18:46 / jba
Bicarbonate as HCO3	178	mg/L		1		A2320 B	12/20/11 18:46 / jba
Calcium	34	mg/L		1		E200.8	12/30/11 18:34 / sml
Chloride	5	mg/L		1		E300.0	12/28/11 04:02 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	12/22/11 11:45 / jba
Magnesium	13	mg/L		1		E200.8	12/30/11 18:34 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:14 / dc
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	12/21/11 13:10 / dc
Potassium	4	mg/L		1		E200.8	12/30/11 18:34 / sml
Silica	83	mg/L	D	1		E200.7	01/12/12 18:06 / cp
Sodium	19	mg/L		1		E200.8	12/30/11 18:34 / sml
Sulfate	8	mg/L		1		E300.0	12/28/11 04:02 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	344	umhos/cm		1		A2510 B	12/20/11 16:57 / wc
pH	7.73	s.u.	H	0.01		A4500-H B	12/21/11 10:27 / wc
Solids, Total Dissolved TDS @ 180 C	229	mg/L		10		A2540 C	12/20/11 16:54 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Arsenic	0.002	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Barium	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:34 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 18:34 / sml
Copper	ND	mg/L		0.01		E200.8	12/30/11 18:34 / sml
Iron	0.03	mg/L		0.03		E200.8	12/30/11 18:34 / sml
Lead	ND	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:34 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/13/12 00:22 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 18:34 / sml
Selenium	0.002	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Uranium	0.0080	mg/L		0.0003		E200.8	12/30/11 18:34 / sml
Uranium, Activity	5.4E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:34 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Zinc	0.49	mg/L		0.01		E200.8	12/30/11 18:34 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:10 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:10 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-001
Client Sample ID: Well #727

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 01:11 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 01:11 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 01:11 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	1.8	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 10:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 10:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 10:00 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	5.25	%				Calculation	01/04/12 14:55 / kbh
Anions	3.37	meq/L				Calculation	01/04/12 14:55 / kbh
Cations	3.74	meq/L				Calculation	01/04/12 14:55 / kbh
Solids, Total Dissolved Calculated	179	mg/L				Calculation	01/04/12 14:55 / kbh
TDS Balance (0.80 - 1.20)	1.28					Calculation	01/04/12 14:55 / kbh

- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-019
Client Sample ID: Well #727

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0089	mg/L		0.0003		E200.8	06/29/12 17:53 / cp
Uranium, Activity	6.1E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:53 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:09 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:09 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/12/12 01:20 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/12/12 01:20 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/12/12 01:20 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.15	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 08:14 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 08:14 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 08:14 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/16/12 15:50 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 15:50 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/16/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:30 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-015
ClientSample ID: Well 727
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	161	mg/L		5	SM 2320B	09/23/2012 134	KV
Alkalinity, Bicarbonate as HCO3	189	mg/L		5	SM 2320B	09/23/2012 134	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 134	KV
Chloride	4	mg/L		1	EPA 300.0	09/25/2012 019	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/23/2012 134	KV
Nitrogen, Nitrate+Nitrite (as N)	1.8	mg/L		0.1	EPA 353.2	09/24/2012 1641	RH
Sulfate	7	mg/L		1	EPA 300.0	09/25/2012 019	AM
Calcium	28	mg/L		1	EPA 200.7	09/24/2012 1805	DG
Magnesium	12	mg/L		1	EPA 200.7	09/24/2012 1805	DG
Potassium	4	mg/L		1	EPA 200.7	09/24/2012 1805	DG
Sodium	20	mg/L		1	EPA 200.7	09/24/2012 1805	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1425	RH
Silica as SiO2	72	mg/L		1	EPA 200.7	09/24/2012 1805	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 134	KV
Electrical Conductivity	308	µmhos/cm		1	SM 2510B	09/23/2012 134	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	09/21/2012 1629	JCG
Data Quality							
Cation Sum	3.32	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.64	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	4.60	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-015
ClientSample ID: Well 727
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1805	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	09/21/2012 2127	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2127	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1805	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2127	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1805	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2127	MS
Iron	0.06	mg/L		0.03	EPA 200.7	09/24/2012 1805	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2127	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1805	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1219	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2127	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1805	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/21/2012 2127	MS
Uranium	0.0090	mg/L		0.0003	EPA 200.8	09/21/2012 2127	MS
Uranium Activity	6.1	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2127	MS
Zinc	0.18	mg/L		0.01	EPA 200.7	09/24/2012 1805	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2338	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.9	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	1.8	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/09/2012 838	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	10/09/2012 838	MB
Thorium 229 Tracer (30-120)	84.5	%		0.2	ACW10	10/09/2012 838	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-015
ClientSample ID: Well 727
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.5	pCi/L	B	1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L	B		OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1806	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1806	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 1205	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/13/2012 1205	MB
Thorium 229 Tracer (30-120)	74.8	%		0.2	ACW10	10/13/2012 1205	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-028
Client Sample ID: 727

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0104	mg/L		0.0003		E200.8	12/20/12 19:25 / cp
Uranium, Activity	7.0E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:25 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:44 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:44 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 07:39 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 07:39 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 07:39 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.7	pCi/L		0.6		E909.0	12/25/12 10:13 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 10:13 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 10:13 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 13:11 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/18/12 13:11 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 13:11 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-007
ClientSample ID: Well 727
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 11:35:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0084	mg/L		0.0003	EPA 200.8	03/21/2013 1409	MS
Uranium Activity	5.7	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	0.0006	mg/L		0.0003	EPA 200.8	03/22/2013 1927	MS
Uranium Activity	0.4	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 1224	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 1224	MB
Thorium 229 Tracer (30-120)	58.2	pCi/L			ACW10	04/02/2013 1224	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 805	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 805	MB
Thorium 229 Tracer (30-120)	70.4	pCi/L			ACW10	04/03/2013 805	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-020
Client Sample ID: Well #728

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0063	mg/L		0.0003		E200.8	06/29/12 17:55 / cp
Uranium, Activity	4.3E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:55 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:11 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:11 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/12/12 04:41 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/12/12 04:41 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/12/12 04:41 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/05/12 14:51 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/05/12 14:51 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 14:51 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.16	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 09:01 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 09:01 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 09:01 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.07	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-003
ClientSample ID: Well 728
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0066	mg/L		0.0003	EPA 200.8	09/21/2012 016	MS
Uranium Activity	4.5	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1434	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1351	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1351	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1057	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1057	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/11/2012 816	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/11/2012 816	MB
Thorium 229 Tracer (30-120)	73.4	%		0.2	ACW10	10/11/2012 816	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	93.0	%		0.2	ACW10	10/16/2012 1046	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples December 2012
Lab ID: C12120275-005
Client Sample ID: 728

Report Date: 01/09/13
Collection Date: 12/05/12
DateReceived: 12/07/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0077	mg/L		0.0003		E200.8	12/29/12 01:36 / cp
Uranium, Activity	5.2E-09	uCi/mL		2.0E-10		E200.8	12/29/12 01:36 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/29/12 00:53 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/29/12 00:53 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/30/12 06:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/30/12 06:53 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/30/12 06:53 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	01/07/13 09:37 / plj
Polonium 210 precision (±)	0.6	pCi/L				E912.0	01/07/13 09:37 / plj
Polonium 210 MDC	1	pCi/L				E912.0	01/07/13 09:37 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/24/12 09:41 / gb
Radium 226 precision (±)	0.1	pCi/L				E903.0	12/24/12 09:41 / gb
Radium 226 MDC	0.2	pCi/L				E903.0	12/24/12 09:41 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/17/12 14:27 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/17/12 14:27 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/17/12 14:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/29/12 11:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/29/12 11:53 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/29/12 11:53 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/07/13 11:57 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/07/13 11:57 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/07/13 11:57 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/21/12 14:00 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/21/12 14:00 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/21/12 14:00 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/18/12 09:31 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/18/12 09:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/18/12 09:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-003
ClientSample ID: Well 728
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 12:45:00 PM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0067	mg/L		0.0003	EPA 200.8	03/21/2013 1350	MS
Uranium Activity	4.5	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/22/2013 1907	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	04/05/2013 907	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/05/2013 907	SH
Polonium 210	ND	pCi/L		1	OTW01	04/04/2013 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/04/2013 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 819	MB
Thorium 229 Tracer (30-120)	59.3	pCi/L			ACW10	04/02/2013 819	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 805	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 805	MB
Thorium 229 Tracer (30-120)	60.1	pCi/L			ACW10	04/03/2013 805	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-017
Client Sample ID: Well #730

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0056	mg/L		0.0003		E200.8	06/29/12 17:44 / cp
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:44 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:06 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:06 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/11/12 18:38 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/11/12 18:38 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/11/12 18:38 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.16	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 06:39 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 06:39 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 06:39 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 15:50 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 15:50 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 08:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 08:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-005
ClientSample ID: Well 730
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0079	mg/L		0.0003	EPA 200.8	09/21/2012 026	MS
Uranium Activity	5.4	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1441	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	10/10/2012 1351	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	10/10/2012 1351	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1057	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1057	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	70.2	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	89.0	%		0.2	ACW10	10/16/2012 1046	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-026
Client Sample ID: Well #731

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0055	mg/L		0.0003		E200.8	06/29/12 18:11 / cp
Uranium, Activity	3.7E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:11 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:32 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:32 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/13/12 00:48 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/13/12 00:48 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/13/12 00:48 / eli-cs
Polonium 210	0.5	pCi/L		0.5		E912.0	07/05/12 14:52 / dmf
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/05/12 14:52 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	07/05/12 14:52 / dmf
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/04/12 06:28 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/04/12 06:28 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	07/04/12 06:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 13:46 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 13:46 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 13:46 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-009
ClientSample ID: Well 731
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	151	mg/L		5	SM 2320B	09/23/2012 010	KV
Alkalinity, Bicarbonate as HCO3	180	mg/L		5	SM 2320B	09/23/2012 010	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 010	KV
Chloride	3	mg/L		1	EPA 300.0	09/24/2012 2203	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/23/2012 010	KV
Nitrogen, Nitrate+Nitrite (as N)	1.9	mg/L		0.1	EPA 353.2	09/24/2012 1634	RH
Sulfate	8	mg/L		1	EPA 300.0	09/24/2012 2203	AM
Calcium	30	mg/L		1	EPA 200.7	09/24/2012 1737	DG
Magnesium	8	mg/L		1	EPA 200.7	09/24/2012 1737	DG
Potassium	3	mg/L		1	EPA 200.7	09/24/2012 1737	DG
Sodium	19	mg/L		1	EPA 200.7	09/24/2012 1737	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1542	RH
Silica as SiO2	67	mg/L		1	EPA 200.7	09/24/2012 1737	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 010	KV
Electrical Conductivity	292	µmhos/cm		1	SM 2510B	09/23/2012 010	KV
Total Dissolved Solids (180)	230	mg/L		10	SM 2540	09/21/2012 1623	JCG
Data Quality							
Cation Sum	3.12	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.41	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	4.44	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	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 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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-009
ClientSample ID: Well 731
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1737	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/21/2012 2033	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/21/2012 2033	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1737	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2033	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1737	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2033	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1737	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2033	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1737	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1159	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2033	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1737	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2033	MS
Uranium	0.0073	mg/L		0.0003	EPA 200.8	09/21/2012 2033	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2033	MS
Zinc	0.23	mg/L		0.01	EPA 200.7	09/24/2012 1737	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2244	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	76.9	%		0.2	ACW10	10/08/2012 928	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 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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-009
ClientSample ID: Well 731
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L	B	1	OTW01	10/19/2012 1302	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L	B		OTW01	10/19/2012 1302	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1217	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/18/2012 1217	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	73.5	%		0.2	ACW10	10/13/2012 756	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-014
Client Sample ID: Well #732

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0066	mg/L		0.0003		E200.8	06/29/12 17:33 / cp
Uranium, Activity	4.5E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:33 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:00 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:00 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/10/12 04:38 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/10/12 04:38 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/10/12 04:38 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.16	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/29/12 02:41 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 02:41 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/29/12 02:41 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/16/12 15:50 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 15:50 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/16/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:30 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-004
ClientSample ID: Well 732
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0075	mg/L		0.0003	EPA 200.8	09/12/2012 1436	MS
Uranium Activity	5.1	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2224	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	09/27/2012 1507	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1507	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1243	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1243	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 902	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 902	MB
Thorium 229 Tracer (30-120)	80.9	%		0.2	ACW10	09/25/2012 902	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/03/2012 1448	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1448	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1134	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1134	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	84.5	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-027
Client Sample ID: Well #734

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0078	mg/L		0.0003		E200.8	06/29/12 18:13 / cp
Uranium, Activity	5.2E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:13 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:41 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:41 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/13/12 04:10 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/13/12 04:10 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/13/12 04:10 / eli-cs
Polonium 210	0.7	pCi/L		0.6		E912.0	07/05/12 14:52 / dmf
Polonium 210 precision (±)	0.7	pCi/L				E912.0	07/05/12 14:52 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 14:52 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/04/12 06:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	07/04/12 06:28 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	07/04/12 06:28 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 14:34 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 14:34 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 14:34 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-001
ClientSample ID: Well 734
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0089	mg/L		0.0003	EPA 200.8	09/12/2012 1407	MS
Uranium Activity	6.0	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2154	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.6	pCi/L		1	OTW01	09/27/2012 1507	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	09/27/2012 1507	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1243	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1243	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 902	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 902	MB
Thorium 229 Tracer (30-120)	68.2	%		0.2	ACW10	09/25/2012 902	MB
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	10/03/2012 1448	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	10/03/2012 1448	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1134	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1134	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	73.2	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples December 2012
Lab ID: C12120275-003
Client Sample ID: 734

Report Date: 01/09/13
Collection Date: 12/05/12
DateReceived: 12/07/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0090	mg/L		0.0003		E200.8	12/29/12 01:29 / cp
Uranium, Activity	6.1E-09	uCi/mL		2.0E-10		E200.8	12/29/12 01:29 / cp
METALS - SUSPENDED							
Uranium	0.0010	mg/L		0.0003		E200.8	12/29/12 00:47 / cp
Uranium, Activity	6.5E-10	uCi/mL		2.0E-10		E200.8	12/29/12 00:47 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	12/30/12 02:23 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/30/12 02:23 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	12/30/12 02:23 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	01/07/13 09:37 / plj
Polonium 210 precision (±)	0.7	pCi/L				E912.0	01/07/13 09:37 / plj
Polonium 210 MDC	1	pCi/L				E912.0	01/07/13 09:37 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/24/12 09:41 / gb
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/24/12 09:41 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	12/24/12 09:41 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/17/12 14:27 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/17/12 14:27 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/17/12 14:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.8	pCi/L		0.6		E909.0	12/29/12 07:43 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/29/12 07:43 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/29/12 07:43 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/07/13 11:57 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/07/13 11:57 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/07/13 11:57 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/21/12 12:06 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/21/12 12:06 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/21/12 12:06 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/18/12 09:31 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/18/12 09:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/18/12 09:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/29/2013
Report ID: S1303398001

ProjectName: Marsland Private Wells 1st Qtr 2013
Lab ID: S1303398-002
ClientSample ID: Well 734
COC:

WorkOrder: S1303398
CollectionDate: 3/21/2013 10:40:00 AM
DateReceived: 3/26/2013 2:15:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0069	mg/L		0.0003	EPA 200.8	03/26/2013 2330	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/02/2013 1413	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Radionuclides - Dissolved							
Lead 210	2.5	pCi/L		1	OTW01	04/19/2013 1220	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/19/2013 1220	SH
Polonium 210	ND	pCi/L		1	OTW01	04/18/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/18/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/10/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/10/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/23/2013 809	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/23/2013 809	MB
Thorium 229 Tracer (30-120)	91.8	%			ACW10	04/23/2013 809	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/26/2013 926	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/26/2013 926	SH
Polonium 210	ND	pCi/L		1	OTW01	04/24/2013 1615	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/24/2013 1615	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/15/2013 1413	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/15/2013 1413	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/16/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/16/2013 813	MB
Thorium 229 Tracer (30-120)	29.1	pCi/L			ACW10	04/16/2013 813	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-028
Client Sample ID: Well #735

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0063	mg/L		0.0003		E200.8	06/29/12 18:15 / cp
Uranium, Activity	4.2E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:15 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:43 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:43 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/13/12 07:31 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/13/12 07:31 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/13/12 07:31 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/05/12 14:52 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/05/12 14:52 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	07/05/12 14:52 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/04/12 06:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	07/04/12 06:28 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	07/04/12 06:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 15:22 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 15:22 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 15:22 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12070057-002
Client Sample ID: Oetken Pivot #736

Report Date: 08/21/12
Collection Date: Not Provided 6/29/12
DateReceived: 07/03/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0081	mg/L		0.0003		E200.8	07/09/12 22:31 / cp
Uranium, Activity	5.5E-09	uCi/mL		2.0E-10		E200.8	07/09/12 22:31 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/10/12 22:07 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/10/12 22:07 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	08/15/12 16:09 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	08/15/12 16:09 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	08/15/12 16:09 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	07/23/12 08:12 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/23/12 08:12 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	07/23/12 08:12 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	07/30/12 09:15 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/30/12 09:15 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/30/12 09:15 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/24/12 08:52 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/24/12 08:52 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/24/12 08:52 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	08/07/12 03:11 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	08/07/12 03:11 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	08/07/12 03:11 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 16:47 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 16:47 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 16:47 / plj
Radium 226	<0.06	pCi/L	U	0.06		E903.0	08/06/12 13:57 / trs
Radium 226 precision (±)	0.03	pCi/L				E903.0	08/06/12 13:57 / trs
Radium 226 MDC	0.06	pCi/L				E903.0	08/06/12 13:57 / trs
Thorium 230	0.06	pCi/L		0.04		E908.0	07/25/12 11:38 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E908.0	07/25/12 11:38 / dmf
Thorium 230 MDC	0.04	pCi/L				E908.0	07/25/12 11:38 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-005
ClientSample ID: Well 736 (Oetken Pivot)
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0069	mg/L		0.0003	EPA 200.8	09/12/2012 1451	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2229	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	76.8	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/03/2012 1448	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1448	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1134	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1134	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	70.6	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12070057-001
Client Sample ID: Oetken North #737

Report Date: 08/21/12
Collection Date: 06/29/12
DateReceived: 07/03/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0086	mg/L		0.0003		E200.8	07/09/12 22:29 / cp
Uranium, Activity	5.8E-09	uCi/mL		2.0E-10		E200.8	07/09/12 22:29 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/10/12 21:55 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/10/12 21:55 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	08/15/12 09:24 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	08/15/12 09:24 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	08/15/12 09:24 / eli-cs
Polonium 210	<1.0	pCi/L	U	1.0		E912.0	07/17/12 15:10 / plj
Polonium 210 precision (±)	0.7	pCi/L				E912.0	07/17/12 15:10 / plj
Polonium 210 MDC	1.0	pCi/L				E912.0	07/17/12 15:10 / plj
Radium 226	<0.20	pCi/L	U	0.20		E903.0	07/30/12 09:15 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	07/30/12 09:15 / trs
Radium 226 MDC	0.20	pCi/L				E903.0	07/30/12 09:15 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/24/12 08:52 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/24/12 08:52 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/24/12 08:52 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/07/12 02:24 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/07/12 02:24 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/07/12 02:24 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 16:47 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 16:47 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 16:47 / plj
Radium 226	<0.06	pCi/L	U	0.06		E903.0	08/06/12 13:57 / trs
Radium 226 precision (±)	0.03	pCi/L				E903.0	08/06/12 13:57 / trs
Radium 226 MDC	0.06	pCi/L				E903.0	08/06/12 13:57 / trs
Thorium 230	0.05	pCi/L		0.04		E908.0	07/25/12 11:38 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E908.0	07/25/12 11:38 / dmf
Thorium 230 MDC	0.04	pCi/L				E908.0	07/25/12 11:38 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/31/2012
Report ID: S1210057001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1210057-001
ClientSample ID: Well 737
COC:

WorkOrder: S1210057
CollectionDate: 9/28/2012
DateReceived: 10/2/2012 3:05:00 PM
FieldSampler: RP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0061	mg/L		0.0003	EPA 200.8	10/02/2012 2306	MS
Uranium Activity	4.1	pCi/L		0.2	Calculation	10/31/2012 1257	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	10/09/2012 1421	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/31/2012 1257	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/26/2012 1442	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/26/2012 1442	SH
Polonium 210	ND	pCi/L		1	OTW01	10/22/2012 1525	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/22/2012 1525	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/29/2012 1441	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/29/2012 1441	MB
Thorium 230	ND	pCi/L		0.2	ACW10	10/18/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/18/2012 814	MB
Thorium 229 Tracer (30-120)	80.6	%		0.2	ACW10	10/18/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/26/2012 1746	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/26/2012 1746	SH
Polonium 210	ND	pCi/L		1	OTW01	10/22/2012 1657	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/22/2012 1657	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/15/2012 1318	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/15/2012 1318	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/19/2012 1050	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/19/2012 1050	MB
Thorium 229 Tracer (30-120)	73.8	%		0.2	ACW10	10/19/2012 1050	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-007
ClientSample ID: Well 737
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 12:53:00 PM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0059	mg/L		0.0003	EPA 200.8	03/22/2013 1324	MS
Uranium Activity	4.0	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 2034	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	04/07/2013 1604	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	04/07/2013 1604	SH
Polonium 210	ND	pCi/L		1	OTW01	04/07/2013 1454	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1454	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 822	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 822	MB
Thorium 229 Tracer (30-120)	42.4	%			ACW10	04/04/2013 822	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 813	MB
Thorium 229 Tracer (30-120)	93.1	%			ACW10	04/12/2013 813	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-032
Client Sample ID: Well #739

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0089	mg/L		0.0003		E200.8	06/29/12 18:33 / cp
Uranium, Activity	6.0E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:33 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:49 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:49 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/13/12 20:55 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/13/12 20:55 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/13/12 20:55 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	07/06/12 09:35 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/06/12 09:35 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	07/06/12 09:35 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 18:32 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/29/12 18:32 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 18:32 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	07/16/12 22:06 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 22:06 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	07/16/12 22:06 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-003
ClientSample ID: Well 739
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	223	mg/L		5	SM 2320B	09/22/2012 2225	KV
Alkalinity, Bicarbonate as HCO3	269	mg/L		5	SM 2320B	09/22/2012 2225	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/22/2012 2225	KV
Chloride	4	mg/L		1	EPA 300.0	09/24/2012 1959	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/22/2012 2225	KV
Nitrogen, Nitrate+Nitrite (as N)	8.7	mg/L		0.1	EPA 353.2	09/24/2012 1621	RH
Sulfate	12	mg/L		1	EPA 300.0	09/24/2012 1959	AM
Calcium	61	mg/L		1	EPA 200.7	09/24/2012 1709	DG
Magnesium	10	mg/L		1	EPA 200.7	09/24/2012 1709	DG
Potassium	7	mg/L		1	EPA 200.7	09/24/2012 1709	DG
Sodium	23	mg/L		1	EPA 200.7	09/24/2012 1709	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1531	RH
Silica as SiO2	53	mg/L		1	EPA 200.7	09/24/2012 1709	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	09/22/2012 2225	KV
Electrical Conductivity	476	µmhos/cm		1	SM 2510B	09/22/2012 2225	KV
Total Dissolved Solids (180)	320	mg/L		10	SM 2540	09/21/2012 1616	JCG
Data Quality							
Cation Sum	4.99	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	5.45	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	4.42	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	340	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.94	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by another 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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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-003
ClientSample ID: Well 739
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1709	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/21/2012 1953	MS
Barium	0.2	mg/L		0.1	EPA 200.8	09/21/2012 1953	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1709	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 1953	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1709	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1953	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1709	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1953	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1709	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1134	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1953	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1709	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1953	MS
Uranium	0.0097	mg/L		0.0003	EPA 200.8	09/21/2012 1953	MS
Uranium Activity	6.6	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 1953	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	09/24/2012 1709	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2214	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	<1	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/25/2012 1301	MB
Thorium 230 Precision (±)	0.09	pCi/L			ACW10	10/25/2012 1301	MB
Thorium 229 Tracer (30-120)	91.6	pCi/L		0.2	ACW10	10/25/2012 1301	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-003
ClientSample ID: Well 739
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	10/12/2012 1933	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	10/12/2012 1933	SH
Polonium 210	2.8	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/12/2012 1314	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/12/2012 1314	MB
Thorium 229 Tracer (30-120)	67.8	%		0.2	ACW10	10/12/2012 1314	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-019
Client Sample ID: 739

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0114	mg/L		0.0003		E200.8	12/20/12 18:45 / cp
Uranium, Activity	7.7E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:45 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/26/12 19:29 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/26/12 19:29 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	12/21/12 08:17 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/21/12 08:17 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	12/21/12 08:17 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/12/12 16:09 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/12/12 16:09 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/12/12 16:09 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/26/12 06:00 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/26/12 06:00 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/26/12 06:00 / eli-cs
Polonium 210	<1.0	pCi/L	U	1.0		E912.0	12/17/12 12:17 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/17/12 12:17 / plj
Polonium 210 MDC	1.0	pCi/L				E912.0	12/17/12 12:17 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	12/20/12 17:21 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	12/20/12 17:21 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	12/20/12 17:21 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:07 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:07 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:07 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-008
ClientSample ID: Well 739
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 11:37:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0102	mg/L		0.0003	EPA 200.8	03/22/2013 1329	MS
Uranium Activity	6.9	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 2039	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	3.0	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	1.0	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	1.1	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	0.4	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 822	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 822	MB
Thorium 229 Tracer (30-120)	49.8	%			ACW10	04/04/2013 822	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 813	MB
Thorium 229 Tracer (30-120)	82.9	%			ACW10	04/12/2013 813	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-031
Client Sample ID: Well #740

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0130	mg/L		0.0003		E200.8	06/29/12 18:32 / cp
Uranium, Activity	8.8E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:32 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:48 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:48 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/13/12 17:34 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/13/12 17:34 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/13/12 17:34 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/06/12 09:35 / dmf
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/06/12 09:35 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	07/06/12 09:35 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 17:44 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 17:44 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 17:44 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 22:06 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 22:06 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 22:06 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-002
ClientSample ID: Well 740
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	228	mg/L		5	SM 2320B	09/22/2012 2214	KV
Alkalinity, Bicarbonate as HCO3	272	mg/L		5	SM 2320B	09/22/2012 2214	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/22/2012 2214	KV
Chloride	7	mg/L		1	EPA 300.0	09/24/2012 1947	AM
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/22/2012 2214	KV
Nitrogen, Nitrate+Nitrite (as N)	1.6	mg/L		0.1	EPA 353.2	09/24/2012 1620	RH
Sulfate	44	mg/L		1	EPA 300.0	09/24/2012 1947	AM
Calcium	62	mg/L		1	EPA 200.7	09/24/2012 1707	DG
Magnesium	11	mg/L		1	EPA 200.7	09/24/2012 1707	DG
Potassium	9	mg/L		1	EPA 200.7	09/24/2012 1707	DG
Sodium	31	mg/L		1	EPA 200.7	09/24/2012 1707	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1530	RH
[illegible]a as SiO2	53	mg/L		1	EPA 200.7	09/24/2012 1707	DG
[illegible]eneral Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	09/22/2012 2214	KV
Electrical Conductivity	519	µmhos/cm		1	SM 2510B	09/22/2012 2214	KV
Total Dissolved Solids (180)	370	mg/L		10	SM 2540	09/21/2012 1615	JCG
Data Quality							
Cation Sum	5.51	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	5.82	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	2.69	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	360	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.03	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-002
ClientSample ID: Well 740
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1707	DG
Arsenic	0.008	mg/L		0.001	EPA 200.8	09/21/2012 1948	MS
Barium	0.2	mg/L		0.1	EPA 200.8	09/21/2012 1948	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1707	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 1948	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1707	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1948	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1707	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1948	MS
Manganese	0.08	mg/L		0.01	EPA 200.7	09/24/2012 1707	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1133	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1948	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1707	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1948	MS
Uranium	0.0191	mg/L		0.0003	EPA 200.8	09/21/2012 1948	MS
Uranium Activity	12.9	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 1948	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1707	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2159	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.7	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	<1	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/05/2012 1225	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/05/2012 1225	MB
Thorium 229 Tracer (30-120)	74.9	%		0.2	ACW10	10/05/2012 1225	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-002
ClientSample ID: Well 740
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/12/2012 1933	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/12/2012 1933	SH
Polonium 210	1.2	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/12/2012 1314	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/12/2012 1314	MB
Thorium 229 Tracer (30-120)	68.8	%		0.2	ACW10	10/12/2012 1314	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-003
Client Sample ID: 741 (G. Oetken)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	159	mg/L		1		A2320 B	04/05/11 22:51 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/05/11 22:51 / jba
Bicarbonate as HCO3	194	mg/L		1		A2320 B	04/05/11 22:51 / jba
Calcium	38	mg/L		1		E200.7	04/07/11 23:06 / cp
Chloride	4	mg/L		1		E300.0	04/08/11 05:21 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/08/11 09:47 / jba
Magnesium	7	mg/L		1		E200.7	04/07/11 23:06 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/06/11 15:14 / dc
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	04/07/11 14:03 / dc
Potassium	5	mg/L		1		E200.7	04/07/11 23:06 / cp
Silica	70.0	mg/L		0.2		E200.7	04/07/11 23:06 / cp
Sodium	19	mg/L		1		E200.7	04/07/11 23:06 / cp
Sulfate	11	mg/L		1		E300.0	04/08/11 05:21 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	324	umhos/cm		1		A2510 B	04/05/11 15:02 / lr
pH	7.72	s.u.		0.01		A4500-H B	04/05/11 15:02 / lr
Solids, Total Dissolved TDS @ 180 C	244	mg/L		10		A2540 C	04/05/11 15:38 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/07/11 08:10 / sml
Arsenic	0.005	mg/L		0.001		E200.8	04/07/11 08:10 / sml
Barium	0.1	mg/L		0.1		E200.8	04/07/11 08:10 / sml
Boron	ND	mg/L		0.1		E200.8	04/07/11 08:10 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/07/11 08:10 / sml
Chromium	ND	mg/L		0.05		E200.8	04/07/11 08:10 / sml
Copper	ND	mg/L		0.01		E200.8	04/07/11 08:10 / sml
Iron	ND	mg/L		0.03		E200.8	04/07/11 08:10 / sml
Lead	ND	mg/L		0.001		E200.8	04/07/11 08:10 / sml
Manganese	ND	mg/L		0.01		E200.8	04/07/11 08:10 / sml
Mercury	ND	mg/L		0.001		E200.8	04/07/11 08:10 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/07/11 08:10 / sml
Nickel	ND	mg/L		0.05		E200.8	04/07/11 08:10 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/07/11 08:10 / sml
Uranium	0.0058	mg/L		0.0003		E200.8	04/07/11 08:10 / sml
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	04/07/11 08:10 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/07/11 08:10 / sml
Zinc	0.03	mg/L		0.01		E200.8	04/07/11 08:10 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 15:53 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 15:53 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-003
Client Sample ID: 741 (G. Oetken)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 01:40 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 01:40 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 01:40 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.2	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/02/11 09:11 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/02/11 09:11 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/02/11 09:11 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 09:46 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 09:46 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 09:46 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/26/11 01:26 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/26/11 01:26 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 01:26 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/27/11 15:28 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/27/11 15:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/27/11 15:28 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.98	%				Calculation	04/12/11 13:48 / kbh
Anions	3.67	meq/L				Calculation	04/12/11 13:48 / kbh
Cations	3.46	meq/L				Calculation	04/12/11 13:48 / kbh
Solids, Total Dissolved Calculated	277	mg/L				Calculation	04/12/11 13:48 / kbh
TDS Balance (0.80 - 1.20)	0.880					Calculation	04/12/11 13:48 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-004
Client Sample ID: Well #741

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	199	mg/L		1		A2320 B	06/17/11 12:48 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	06/17/11 12:48 / jba
Bicarbonate as HCO3	243	mg/L		1		A2320 B	06/17/11 12:48 / jba
Calcium	52	mg/L		1		E200.7	06/24/11 23:20 / cp
Chloride	5	mg/L		1		E300.0	06/18/11 16:34 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	06/16/11 14:21 / jba
Magnesium	9	mg/L		1		E200.7	06/24/11 23:20 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	06/17/11 15:13 / dc
Nitrogen, Nitrate+Nitrite as N	3.3	mg/L		0.1		E353.2	06/16/11 14:34 / dc
Potassium	5	mg/L		1		E200.7	06/24/11 23:20 / cp
Silica	65.1	mg/L		0.2		E200.7	06/24/11 23:20 / cp
Sodium	26	mg/L		1		E200.7	06/24/11 23:20 / cp
Sulfate	13	mg/L		1		E300.0	06/18/11 16:34 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	413	umhos/cm		1		A2510 B	06/16/11 15:00 / wc
pH	7.72	s.u.		0.01		A4500-H B	06/16/11 15:00 / wc
Solids, Total Dissolved TDS @ 180 C	289	mg/L		10		A2540 C	06/16/11 16:49 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/17/11 21:58 / sml
Arsenic	0.006	mg/L		0.001		E200.8	06/17/11 21:58 / sml
Barium	0.1	mg/L		0.1		E200.8	06/17/11 21:58 / sml
Boron	ND	mg/L		0.1		E200.7	06/24/11 23:20 / cp
Cadmium	ND	mg/L		0.005		E200.8	06/17/11 21:58 / sml
Chromium	ND	mg/L		0.05		E200.8	06/17/11 21:58 / sml
Copper	ND	mg/L		0.01		E200.8	06/17/11 21:58 / sml
Iron	ND	mg/L		0.03		E200.7	06/24/11 23:20 / cp
Lead	ND	mg/L		0.001		E200.8	06/17/11 21:58 / sml
Manganese	ND	mg/L		0.01		E200.8	06/17/11 21:58 / sml
Mercury	ND	mg/L		0.001		E200.8	06/17/11 21:58 / sml
Molybdenum	ND	mg/L		0.1		E200.8	06/17/11 21:58 / sml
Nickel	ND	mg/L		0.05		E200.8	06/17/11 21:58 / sml
Selenium	0.002	mg/L		0.001		E200.8	06/17/11 21:58 / sml
Uranium	0.0081	mg/L		0.0003		E200.8	06/17/11 21:58 / sml
Uranium, Activity	5.5E-09	uCi/mL		2.0E-10		E200.8	06/17/11 21:58 / sml
Vanadium	ND	mg/L		0.1		E200.8	06/17/11 21:58 / sml
Zinc	0.02	mg/L		0.01		E200.8	06/17/11 21:58 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/23/11 03:27 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/23/11 03:27 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-004
Client Sample ID: Well #741

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	07/07/11 07:37 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	07/07/11 07:37 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	07/07/11 07:37 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/07/11 11:16 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/07/11 11:16 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	07/07/11 11:16 / ep
Radium 226	0.29	pCi/L		0.1		E903.0	07/06/11 01:13 / trs
Radium 226 precision (±)	0.10	pCi/L				E903.0	07/06/11 01:13 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	07/06/11 01:13 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/30/11 10:26 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/30/11 10:26 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/30/11 10:26 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/11 19:10 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/11 19:10 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/11 19:10 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/05/11 09:57 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/05/11 09:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	07/05/11 09:57 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/05/11 23:13 / dmf
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/05/11 23:13 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	07/05/11 23:13 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/28/11 09:02 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/28/11 09:02 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/28/11 09:02 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.330	%				Calculation	06/27/11 09:16 / kbh
Anions	4.67	meq/L				Calculation	06/27/11 09:16 / kbh
Cations	4.64	meq/L				Calculation	06/27/11 09:16 / kbh
Solids, Total Dissolved Calculated	329	mg/L				Calculation	06/27/11 09:16 / kbh
TDS Balance (0.80 - 1.20)	0.880					Calculation	06/27/11 09:16 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-001
Client Sample ID: Well #741

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	179	mg/L		1		A2320 B	09/27/11 16:48 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 16:48 / jba
Bicarbonate as HCO3	218	mg/L		1		A2320 B	09/27/11 16:48 / jba
Calcium	50	mg/L		1		E200.7	10/26/11 17:07 / cp
Chloride	5	mg/L		1		E300.0	10/05/11 01:57 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	09/28/11 10:12 / jba
Magnesium	8	mg/L		1		E200.7	10/26/11 17:07 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 15:44 / dc
Nitrogen, Nitrate+Nitrite as N	3.2	mg/L	D	0.2		E353.2	10/20/11 11:38 / ljl
Potassium	5	mg/L		1		E200.7	10/26/11 17:07 / cp
Silica	66.2	mg/L		0.2		E200.7	10/26/11 17:07 / cp
Sodium	22	mg/L		1		E200.7	10/26/11 17:07 / cp
Sulfate	13	mg/L		1		E300.0	10/05/11 01:57 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	403	umhos/cm		1		A2510 B	09/27/11 15:25 / lmc
pH	7.99	s.u.		0.01		A4500-H B	09/27/11 15:25 / lmc
Solids, Total Dissolved TDS @ 180 C	277	mg/L		10		A2540 C	09/27/11 17:18 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:07 / cp
Arsenic	0.006	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Barium	0.2	mg/L		0.1		E200.8	10/11/11 04:17 / sml
Boron	0.1	mg/L		0.1		E200.7	10/26/11 17:07 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:17 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:07 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 04:17 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:07 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 10:52 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:17 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:17 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Uranium	0.0091	mg/L		0.0003		E200.8	10/11/11 04:17 / sml
Uranium, Activity	6.2E-09	uCi/mL		2.0E-10		E200.8	10/11/11 04:17 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 10:52 / cp
Zinc	0.03	mg/L		0.01		E200.7	10/26/11 17:07 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:24 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:24 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-001
Client Sample ID: Well #741

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	10/19/11 04:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 04:40 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	10/19/11 04:40 / eli-cs
Polonium 210	0.6	pCi/L		0.5		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	2.4	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.3	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 09:53 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 09:53 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 09:53 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.03	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	0.2	pCi/L		0.1		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.0941	%				Calculation	11/02/11 12:37 / kbh
Anions	4.24	meq/L				Calculation	11/02/11 12:37 / kbh
Cations	4.25	meq/L				Calculation	11/02/11 12:37 / kbh
Solids, Total Dissolved Calculated	308	mg/L				Calculation	11/02/11 12:37 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	11/02/11 12:37 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-004
Client Sample ID: Well #741

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	173	mg/L		1		A2320 B	12/20/11 19:09 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 19:09 / jba
Bicarbonate as HCO3	211	mg/L		1		A2320 B	12/20/11 19:09 / jba
Calcium	49	mg/L		1		E200.8	12/30/11 18:55 / sml
Chloride	5	mg/L		1		E300.0	12/28/11 10:15 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/11 12:06 / jba
Magnesium	9	mg/L		1		E200.8	12/30/11 18:55 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:20 / dc
Nitrogen, Nitrate+Nitrite as N	3.1	mg/L		0.1		E353.2	12/21/11 13:18 / dc
Potassium	5	mg/L		1		E200.8	12/30/11 18:55 / sml
Silica	64.4	mg/L		0.2		E200.7	01/12/12 18:30 / cp
Sodium	26	mg/L		1		E200.8	12/30/11 18:55 / sml
Sulfate	12	mg/L		1		E300.0	12/28/11 10:15 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	327	umhos/cm		1		A2510 B	12/21/11 10:40 / wc
pH	7.86	s.u.	H	0.01		A4500-H B	12/21/11 10:40 / wc
Solids, Total Dissolved TDS @ 180 C	259	mg/L		10		A2540 C	12/20/11 16:54 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Arsenic	0.006	mg/L		0.001		E200.8	12/30/11 18:55 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:55 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 18:55 / sml
Copper	ND	mg/L		0.01		E200.8	12/30/11 18:55 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 18:55 / sml
Lead	ND	mg/L		0.001		E200.8	12/21/11 23:27 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:55 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:55 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:30 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 18:55 / sml
Selenium	0.002	mg/L		0.001		E200.8	12/21/11 23:27 / sml
Uranium	0.0057	mg/L		0.0003		E200.8	12/30/11 18:55 / sml
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:55 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Zinc	0.02	mg/L		0.01		E200.8	12/30/11 18:55 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:23 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:23 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-004
Client Sample ID: Well #741

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 17:44 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 17:44 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 17:44 / eli-cs
Polonium 210	1.7	pCi/L		1.3		E912.0	02/02/12 08:46 / plj
Polonium 210 precision (±)	1.5	pCi/L				E912.0	02/02/12 08:46 / plj
Polonium 210 MDC	1.3	pCi/L				E912.0	02/02/12 08:46 / plj
Radium 226	0.5	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 16:15 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 16:15 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 16:15 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.69	%				Calculation	01/04/12 08:42 / kbh
Anions	4.10	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	4.42	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	224	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.16					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-030
Client Sample ID: Well #742

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0128	mg/L		0.0003		E200.8	06/29/12 18:30 / cp
Uranium, Activity	8.6E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:30 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:46 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:46 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	07/13/12 14:13 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/13/12 14:13 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	07/13/12 14:13 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	07/05/12 14:52 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 14:52 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	07/05/12 14:52 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 16:57 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 16:57 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 16:57 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 22:06 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 22:06 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 22:06 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-005
ClientSample ID: Well 742
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	244	mg/L		5	SM 2320B	09/22/2012 2300	KV
Alkalinity, Bicarbonate as HCO3	293	mg/L		5	SM 2320B	09/22/2012 2300	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/22/2012 2300	KV
Chloride	8	mg/L		1	EPA 300.0	10/02/2012 1530	AM
Fluoride	0.6	mg/L		0.1	SM 4500FC	09/22/2012 2300	KV
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	09/24/2012 1623	RH
Sulfate	24	mg/L		1	EPA 300.0	10/02/2012 1530	AM
Calcium	59	mg/L		1	EPA 200.7	09/24/2012 1714	DG
Magnesium	12	mg/L		1	EPA 200.7	10/02/2012 1528	DG
Potassium	13	mg/L		1	EPA 200.7	10/02/2012 1528	DG
Sodium	28	mg/L		1	EPA 200.7	09/24/2012 1714	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1538	RH
Silica as SiO2	40	mg/L		1	EPA 200.7	09/24/2012 1714	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	09/22/2012 2300	KV
Electrical Conductivity	507	µmhos/cm		1	SM 2510B	09/22/2012 2300	KV
Total Dissolved Solids (180)	330	mg/L		10	SM 2540	09/21/2012 1618	JCG
Data Quality							
Cation Sum	5.41	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	5.68	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	2.48	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	330	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-005
ClientSample ID: Well 742
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1714	DG
Arsenic	0.010	mg/L		0.001	EPA 200.8	09/21/2012 2003	MS
Barium	0.2	mg/L		0.1	EPA 200.8	09/21/2012 2003	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1714	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2003	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1714	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2003	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1714	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2003	MS
Manganese	0.14	mg/L		0.01	EPA 200.7	09/24/2012 1714	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1145	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2003	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1714	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2003	MS
Uranium	0.0116	mg/L		0.0003	EPA 200.8	09/21/2012 2003	MS
Uranium Activity	7.9	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2003	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1714	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2224	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	2.2	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/05/2012 1225	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	10/05/2012 1225	MB
Thorium 229 Tracer (30-120)	76.4	%		0.2	ACW10	10/05/2012 1225	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 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

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-005
ClientSample ID: Well 742
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.5	pCi/L	B	1	OTW01	10/19/2012 1302	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L	B		OTW01	10/19/2012 1302	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1217	SH
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	10/18/2012 1217	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	0.3	pCi/L		0.2	ACW10	10/12/2012 1314	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/12/2012 1314	MB
Thorium 229 Tracer (30-120)	63.2	%		0.2	ACW10	10/12/2012 1314	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-020
Client Sample ID: 742

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0128	mg/L		0.0003		E200.8	12/20/12 18:46 / cp
Uranium, Activity	8.7E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:46 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/26/12 19:51 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/26/12 19:51 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	12/21/12 10:32 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/21/12 10:32 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	12/21/12 10:32 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.6	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 16:09 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	12/12/12 16:09 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 16:09 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/26/12 07:42 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/26/12 07:42 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/26/12 07:42 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/17/12 12:17 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/17/12 12:17 / plj
Polonium 210 MDC	1	pCi/L				E912.0	12/17/12 12:17 / plj
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/20/12 17:21 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 17:21 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/20/12 17:21 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:07 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:07 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:07 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-009
ClientSample ID: Well 742
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 11:45:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0095	mg/L		0.0003	EPA 200.8	03/22/2013 1334	MS
Uranium Activity	6.4	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 2044	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 822	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 822	MB
Thorium 229 Tracer (30-120)	58.5	%			ACW10	04/04/2013 822	MB
Radionuclides - Suspended							
Lead 210	1.9	pCi/L		1	OTW01	04/08/2013 1728	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/08/2013 1728	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1313	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1313	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 813	MB
Thorium 229 Tracer (30-120)	87.0	%			ACW10	04/12/2013 813	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-001
Client Sample ID: Well #743

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0165	mg/L		0.0003		E200.8	06/27/12 22:15 / cp
Uranium, Activity	1.1E-08	uCi/mL		2.0E-10		E200.8	06/27/12 22:15 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:32 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:32 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/08/12 12:36 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/08/12 12:36 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/08/12 12:36 / eli-cs
Polonium 210	1.6	pCi/L		0.6		E912.0	06/25/12 12:50 / dmf
Polonium 210 precision (±)	1	pCi/L				E912.0	06/25/12 12:50 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	06/25/12 12:50 / dmf
Radium 226	0.42	pCi/L		0.18		E903.0	07/03/12 21:26 / trs
Radium 226 precision (±)	0.17	pCi/L				E903.0	07/03/12 21:26 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	07/03/12 21:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/05/12 08:50 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/05/12 08:50 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/05/12 08:50 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/08/12 12:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/08/12 12:40 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/08/12 12:40 / eli-cs
Polonium 210	0.7	pCi/L		0.3		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:54 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/29/12 08:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:54 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-012
ClientSample ID: Well 743
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0057	mg/L		0.0003	EPA 200.8	09/21/2012 110	MS
Uranium Activity	3.9	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1529	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	69.3	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	88.0	%		0.2	ACW10	10/17/2012 844	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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-012
ClientSample ID: Well 743
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0057	mg/L		0.0003	EPA 200.8	09/21/2012 110	MS
Uranium Activity	3.9	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1529	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	69.3	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	88.0	%		0.2	ACW10	10/17/2012 844	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-003
Client Sample ID: 743

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0077	mg/L		0.0003		E200.8	12/20/12 18:00 / cp
Uranium, Activity	5.2E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:00 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:49 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:49 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	12/19/12 06:52 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/19/12 06:52 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	12/19/12 06:52 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 11:58 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 11:58 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 11:58 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 02:46 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 02:46 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 02:46 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/20/12 14:14 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/20/12 14:14 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/20/12 14:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-015
ClientSample ID: Well 743
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 7:54:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0075	mg/L		0.0003	EPA 200.8	03/21/2013 1513	MS
Uranium Activity	5.1	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1545	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1040	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1040	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1851	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1851	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 1353	MB
ıorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 1353	MB
Thorium 229 Tracer (30-120)	73.9	pCi/L			ACW10	04/08/2013 1353	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/06/2013 1845	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 1845	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 1246	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 1246	MB
Thorium 229 Tracer (30-120)	78.2	pCi/L			ACW10	04/09/2013 1246	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-002
Client Sample ID: Well #744

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0043	mg/L		0.0003		E200.8	07/09/12 12:27 / cp
Uranium, Activity	2.9E-09	uCi/mL		2.0E-10		E200.8	07/09/12 12:27 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:34 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:34 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/08/12 15:57 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/08/12 15:57 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/08/12 15:57 / eli-cs
Polonium 210	1	pCi/L		0.5		E912.0	06/25/12 12:50 / dmf
Polonium 210 precision (±)	0.6	pCi/L				E912.0	06/25/12 12:50 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	06/25/12 12:50 / dmf
Radium 226	0.46	pCi/L		0.20		E903.0	07/03/12 21:26 / trs
Radium 226 precision (±)	0.19	pCi/L				E903.0	07/03/12 21:26 / trs
Radium 226 MDC	0.20	pCi/L				E903.0	07/03/12 21:26 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/05/12 08:50 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	07/05/12 08:50 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/05/12 08:50 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/08/12 14:45 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/08/12 14:45 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/08/12 14:45 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:54 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	06/29/12 08:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:54 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-013
ClientSample ID: Well 744
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0038	mg/L		0.0003	EPA 200.8	09/21/2012 130	MS
Uranium Activity	2.6	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1533	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	85.5	%		0.2	ACW10	10/15/2012 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	88.4	%		0.2	ACW10	10/17/2012 844	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-004
Client Sample ID: 744

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0034	mg/L		0.0003		E200.8	12/20/12 18:01 / cp
Uranium, Activity	2.3E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:01 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:51 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:51 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/19/12 09:07 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/19/12 09:07 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/19/12 09:07 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 11:58 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 11:58 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 11:58 / dmf
Radium 226	0.19	pCi/L		0.16		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.13	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 04:28 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 04:28 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 04:28 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/20/12 14:14 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/20/12 14:14 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/20/12 14:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-014
ClientSample ID: Well 744
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 8:10:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0028	mg/L		0.0003	EPA 200.8	03/21/2013 1508	MS
Uranium Activity	1.9	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1540	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1851	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1851	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 1353	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 1353	MB
Thorium 229 Tracer (30-120)	68.1	pCi/L			ACW10	04/08/2013 1353	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/06/2013 1845	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 1845	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 1246	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 1246	MB
Thorium 229 Tracer (30-120)	62.8	pCi/L			ACW10	04/09/2013 1246	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-006
Client Sample ID: 745 (J. Manning)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	185	mg/L		1		A2320 B	04/05/11 23:15 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/05/11 23:15 / jba
Bicarbonate as HCO3	226	mg/L		1		A2320 B	04/05/11 23:15 / jba
Calcium	65	mg/L		1		E200.7	04/08/11 00:23 / cp
Chloride	4	mg/L		1		E300.0	04/08/11 06:38 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	04/08/11 09:59 / jba
Magnesium	11	mg/L		1		E200.7	04/08/11 00:23 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/06/11 15:20 / dc
Nitrogen, Nitrate+Nitrite as N	6.9	mg/L	D	0.5		E353.2	04/07/11 14:11 / dc
Potassium	3	mg/L		1		E200.7	04/08/11 00:23 / cp
Silica	72.6	mg/L		0.2		E200.7	04/08/11 00:23 / cp
Sodium	9	mg/L		1		E200.7	04/08/11 00:23 / cp
Sulfate	19	mg/L		1		E300.0	04/08/11 06:38 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	432	umhos/cm		1		A2510 B	04/05/11 15:11 / lr
pH	7.64	s.u.		0.01		A4500-H B	04/05/11 15:11 / lr
Solids, Total Dissolved TDS @ 180 C	334	mg/L		10		A2540 C	04/05/11 15:38 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/07/11 08:59 / sml
Arsenic	0.003	mg/L		0.001		E200.8	04/07/11 08:59 / sml
Barium	ND	mg/L		0.1		E200.8	04/07/11 08:59 / sml
Boron	ND	mg/L		0.1		E200.8	04/07/11 08:59 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/07/11 08:59 / sml
Chromium	ND	mg/L		0.05		E200.8	04/07/11 08:59 / sml
Copper	ND	mg/L		0.01		E200.8	04/07/11 08:59 / sml
Iron	ND	mg/L		0.03		E200.8	04/07/11 08:59 / sml
Lead	0.001	mg/L		0.001		E200.8	04/07/11 08:59 / sml
Manganese	ND	mg/L		0.01		E200.8	04/07/11 08:59 / sml
Mercury	ND	mg/L		0.001		E200.8	04/07/11 08:59 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/07/11 08:59 / sml
Nickel	ND	mg/L		0.05		E200.8	04/07/11 08:59 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/07/11 08:59 / sml
Uranium	0.0373	mg/L		0.0003		E200.8	04/07/11 08:59 / sml
Uranium, Activity	2.5E-08	uCi/mL		2.0E-10		E200.8	04/07/11 08:59 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/07/11 08:59 / sml
Zinc	0.43	mg/L		0.01		E200.8	04/07/11 08:59 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 16:05 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 16:05 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-006
Client Sample ID: 745 (J. Manning)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 08:14 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 08:14 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 08:14 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.2	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 16:20 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 16:20 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 16:20 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/26/11 03:02 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/26/11 03:02 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 03:02 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/28/11 08:51 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/28/11 08:51 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/28/11 08:51 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.785	%				Calculation	04/12/11 13:49 / kbh
Anions	4.70	meq/L				Calculation	04/12/11 13:49 / kbh
Cations	4.63	meq/L				Calculation	04/12/11 13:49 / kbh
Solids, Total Dissolved Calculated	344	mg/L				Calculation	04/12/11 13:49 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/12/11 13:49 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-001
Client Sample ID: Well #745

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	175	mg/L		1		A2320 B	06/17/11 12:16 / jba
Carbonate as CO3	2	mg/L		1		A2320 B	06/17/11 12:16 / jba
Bicarbonate as HCO3	209	mg/L		1		A2320 B	06/17/11 12:16 / jba
Calcium	57	mg/L		1		E200.7	06/24/11 23:08 / cp
Chloride	3	mg/L		1		E300.0	06/18/11 15:48 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	06/16/11 13:59 / jba
Magnesium	10	mg/L		1		E200.7	06/24/11 23:08 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	06/17/11 15:01 / dc
Nitrogen, Nitrate+Nitrite as N	3.9	mg/L	D	0.2		E353.2	06/16/11 14:21 / dc
Potassium	2	mg/L		1		E200.7	06/24/11 23:08 / cp
Silica	70.1	mg/L		0.2		E200.7	06/24/11 23:08 / cp
Sodium	8	mg/L		1		E200.7	06/24/11 23:08 / cp
Sulfate	11	mg/L		1		E300.0	06/18/11 15:48 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	356	umhos/cm		1		A2510 B	06/16/11 14:49 / wc
pH	7.78	s.u.		0.01		A4500-H B	06/16/11 14:49 / wc
Solids, Total Dissolved TDS @ 180 C	280	mg/L		10		A2540 C	06/16/11 16:48 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	06/17/11 21:38 / sml
Arsenic	0.003	mg/L		0.001		E200.8	06/17/11 21:38 / sml
Barium	ND	mg/L		0.1		E200.8	06/17/11 21:38 / sml
Boron	ND	mg/L		0.1		E200.7	06/24/11 23:08 / cp
Cadmium	ND	mg/L		0.005		E200.8	06/17/11 21:38 / sml
Chromium	ND	mg/L		0.05		E200.8	06/17/11 21:38 / sml
Copper	ND	mg/L		0.01		E200.8	06/17/11 21:38 / sml
Iron	ND	mg/L		0.03		E200.7	06/24/11 23:08 / cp
Lead	ND	mg/L		0.001		E200.8	06/17/11 21:38 / sml
Manganese	ND	mg/L		0.01		E200.8	06/17/11 21:38 / sml
Mercury	ND	mg/L		0.001		E200.8	06/17/11 21:38 / sml
Molybdenum	ND	mg/L		0.1		E200.8	06/17/11 21:38 / sml
Nickel	ND	mg/L		0.05		E200.8	06/17/11 21:38 / sml
Selenium	0.002	mg/L		0.001		E200.8	06/17/11 21:38 / sml
Uranium	0.0170	mg/L		0.0003		E200.8	06/17/11 21:38 / sml
Uranium, Activity	1.1E-08	uCi/mL		2.0E-10		E200.8	06/17/11 21:38 / sml
Vanadium	ND	mg/L		0.1		E200.8	06/17/11 21:38 / sml
Zinc	0.14	mg/L		0.01		E200.8	06/17/11 21:38 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/23/11 03:15 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/23/11 03:15 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-005
Client Sample ID: Well #745

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		1		A2320 B	09/27/11 17:28 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 17:28 / jba
Bicarbonate as HCO3	209	mg/L		1		A2320 B	09/27/11 17:28 / jba
Calcium	64	mg/L		1		E200.7	10/26/11 17:35 / cp
Chloride	3	mg/L		1		E300.0	10/05/11 03:58 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	09/28/11 10:37 / jba
Magnesium	11	mg/L		1		E200.7	10/26/11 17:35 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 16:02 / dc
Nitrogen, Nitrate+Nitrite as N	6.5	mg/L	DH	0.5		E353.2	10/21/11 10:39 / dc
Potassium	2	mg/L		1		E200.7	10/26/11 17:35 / cp
Silica	70.9	mg/L		0.2		E200.7	10/26/11 17:35 / cp
Sodium	8	mg/L		1		E200.7	10/26/11 17:35 / cp
Sulfate	16	mg/L		1		E300.0	10/05/11 03:58 / ljl
- H-Original analysis was done within hold time. Data is from recheck analysis.							
PHYSICAL PROPERTIES							
Conductivity @ 25 C	419	umhos/cm		1		A2510 B	09/27/11 15:36 / lmc
pH	7.94	s.u.		0.01		A4500-H B	09/27/11 15:36 / lmc
Solids, Total Dissolved TDS @ 180 C	315	mg/L		10		A2540 C	09/27/11 17:19 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:35 / cp
Arsenic	0.003	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Barium	ND	mg/L		0.1		E200.8	10/11/11 05:04 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:35 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 05:04 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:35 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 05:04 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:35 / cp
Lead	0.001	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:20 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 05:04 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 05:04 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Uranium	0.0349	mg/L		0.0003		E200.8	10/11/11 05:04 / sml
Uranium, Activity	2.4E-08	uCi/mL		2.0E-10		E200.8	10/11/11 05:04 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:20 / cp
Zinc	0.51	mg/L		0.01		E200.7	10/26/11 17:35 / cp
METALS - SUSPENDED							
Uranium	0.0003	mg/L		0.0003		E200.8	10/01/11 17:28 / sml
Uranium, Activity	2.1E-10	uCi/mL		2.0E-10		E200.8	10/01/11 17:28 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-005
Client Sample ID: Well #745

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	10/19/11 18:00 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 18:00 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	10/19/11 18:00 / eli-cs
Polonium 210	0.5	pCi/L		0.4		E912.0	10/28/11 09:11 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	10/28/11 09:11 / ep
Polonium 210 MDC	0.4	pCi/L				E912.0	10/28/11 09:11 / ep
Radium 226	0.4	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 18:52 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 18:52 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 18:52 / eli-cs
Polonium 210	0.3	pCi/L		0.1		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.08	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	0.2	pCi/L		0.2		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.15	%				Calculation	11/02/11 12:39 / kbh
Anions	4.35	meq/L				Calculation	11/02/11 12:39 / kbh
Cations	4.54	meq/L				Calculation	11/02/11 12:39 / kbh
Solids, Total Dissolved Calculated	327	mg/L				Calculation	11/02/11 12:39 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	11/02/11 12:39 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-005
Client Sample ID: Well #745

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	164	mg/L		1		A2320 B	12/20/11 19:17 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 19:17 / jba
Bicarbonate as HCO3	200	mg/L		1		A2320 B	12/20/11 19:17 / jba
Calcium	61	mg/L		1		E200.8	12/22/11 00:02 / sml
Chloride	4	mg/L		1		E300.0	12/28/11 10:28 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	12/22/11 12:13 / jba
Magnesium	11	mg/L		1		E200.8	12/22/11 00:02 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:22 / dc
Nitrogen, Nitrate+Nitrite as N	5.0	mg/L		0.1		E353.2	12/21/11 13:20 / dc
Potassium	2	mg/L		1		E200.8	12/22/11 00:02 / sml
Silica	67.2	mg/L		0.2		E200.7	01/12/12 18:34 / cp
Sodium	8	mg/L		1		E200.8	12/22/11 00:02 / sml
Sulfate	16	mg/L		1		E300.0	12/28/11 10:28 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	327	umhos/cm		1		A2510 B	12/21/11 10:45 / wc
pH	7.79	s.u.	H	0.01		A4500-H B	12/21/11 10:45 / wc
Solids, Total Dissolved TDS @ 180 C	292	mg/L		10		A2540 C	12/20/11 16:54 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 19:30 / sml
Arsenic	0.003	mg/L		0.001		E200.8	12/22/11 00:02 / sml
Barium	ND	mg/L		0.1		E200.8	12/30/11 19:30 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 19:30 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 19:30 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/11 00:02 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/11 00:02 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 19:30 / sml
Lead	0.002	mg/L		0.001		E200.8	12/22/11 00:02 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/11 00:02 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 19:30 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:34 / cp
Nickel	ND	mg/L		0.05		E200.8	12/22/11 00:02 / sml
Selenium	0.002	mg/L		0.001		E200.8	12/22/11 00:02 / sml
Uranium	0.0165	mg/L		0.0003		E200.8	12/30/11 19:30 / sml
Uranium, Activity	1.1E-08	uCi/mL		2.0E-10		E200.8	12/30/11 19:30 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/11 00:02 / sml
Zinc	0.72	mg/L		0.01		E200.8	12/22/11 00:02 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:24 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:24 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-005
Client Sample ID: Well #745

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 23:15 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 23:15 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 23:15 / eli-cs
Polonium 210	<1.0	pCi/L	U	1.0		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	1.0	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	0.4	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 18:20 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 18:20 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 18:20 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.13	%				Calculation	01/04/12 08:42 / kbh
Anions	4.10	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	4.36	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	223	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.31					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-001
Client Sample ID: Well #745

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	07/07/11 01:02 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	07/07/11 01:02 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	07/07/11 01:02 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/07/11 09:07 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/07/11 09:07 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	07/07/11 09:07 / ep
Radium 226	0.4	pCi/L		0.2		E903.0	06/27/11 10:12 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	06/27/11 10:12 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	06/27/11 10:12 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/30/11 10:26 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/30/11 10:26 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/30/11 10:26 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	07/09/11 08:12 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/11 08:12 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	07/09/11 08:12 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/05/11 09:58 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/05/11 09:58 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	07/05/11 09:58 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/05/11 23:13 / dmf
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/05/11 23:13 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	07/05/11 23:13 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/28/11 09:02 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/28/11 09:02 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/28/11 09:02 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.713	%				Calculation	06/27/11 09:15 / kbh
Anions	4.13	meq/L				Calculation	06/27/11 09:15 / kbh
Cations	4.07	meq/L				Calculation	06/27/11 09:15 / kbh
Solids, Total Dissolved Calculated	303	mg/L				Calculation	06/27/11 09:15 / kbh
TDS Balance (0.80 - 1.20)	0.920					Calculation	06/27/11 09:15 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-003
Client Sample ID: Well #745

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0072	mg/L		0.0003		E200.8	07/09/12 12:29 / cp
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	07/09/12 12:29 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:37 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:37 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/08/12 19:17 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/08/12 19:17 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/08/12 19:17 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	06/25/12 12:50 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	06/25/12 12:50 / dmf
Polonium 210 MDC	0.4	pCi/L				E912.0	06/25/12 12:50 / dmf
Radium 226	<0.24	pCi/L	U	0.24		E903.0	07/03/12 21:26 / trs
Radium 226 precision (±)	0.15	pCi/L				E903.0	07/03/12 21:26 / trs
Radium 226 MDC	0.24	pCi/L				E903.0	07/03/12 21:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/05/12 08:50 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/05/12 08:50 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/05/12 08:50 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	07/08/12 16:50 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/08/12 16:50 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	07/08/12 16:50 / eli-cs
Polonium 210	0.5	pCi/L		0.3		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:54 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	06/29/12 08:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:54 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-014
ClientSample ID: Well 745
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0268	mg/L		0.0003	EPA 200.8	09/21/2012 135	MS
Uranium Activity	18.1	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1537	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	2.8	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	0.7	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/15/2012 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/15/2012 918	MB
Thorium 229 Tracer (30-120)	95.1	%		0.2	ACW10	10/15/2012 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1418	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1418	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	77.9	%		0.2	ACW10	10/17/2012 844	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-005
Client Sample ID: 745

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0282	mg/L		0.0003		E200.8	12/20/12 18:04 / cp
Uranium, Activity	1.9E-08	uCi/mL		2.0E-10		E200.8	12/20/12 18:04 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:52 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:52 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/19/12 11:22 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/19/12 11:22 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/19/12 11:22 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 11:58 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 11:58 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 11:58 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 06:11 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 06:11 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 06:11 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/20/12 14:14 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/20/12 14:14 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/20/12 14:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-013
ClientSample ID: Well 745
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 8:20:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0179	mg/L		0.0003	EPA 200.8	03/21/2013 1503	MS
Uranium Activity	12.1	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1535	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1851	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1851	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 1353	MB
ıorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 1353	MB
Thorium 229 Tracer (30-120)	75.4	pCi/L			ACW10	04/08/2013 1353	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/06/2013 1845	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 1845	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 1246	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 1246	MB
Thorium 229 Tracer (30-120)	73.3	pCi/L			ACW10	04/09/2013 1246	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-004
Client Sample ID: Well #746

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0114	mg/L		0.0003		E200.8	06/29/12 16:47 / cp
Uranium, Activity	7.8E-09	uCi/mL		2.0E-10		E200.8	06/29/12 16:47 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:39 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:39 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/08/12 22:37 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/08/12 22:37 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/08/12 22:37 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	0.17	pCi/L		0.17		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 12:48 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/18/12 12:48 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 12:48 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/08/12 18:55 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/08/12 18:55 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/08/12 18:55 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:54 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	06/29/12 08:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:54 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-012
ClientSample ID: Well 746
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	155	mg/L		5	SM 2320B	09/23/2012 046	KV
Alkalinity, Bicarbonate as HCO3	184	mg/L		5	SM 2320B	09/23/2012 046	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 046	KV
Chloride	2	mg/L		1	EPA 300.0	09/24/2012 2240	AM
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/23/2012 046	KV
Nitrogen, Nitrate+Nitrite (as N)	1.1	mg/L		0.1	EPA 353.2	09/24/2012 1637	RH
Sulfate	3	mg/L		1	EPA 300.0	09/24/2012 2240	AM
Calcium	33	mg/L		1	EPA 200.7	09/24/2012 1744	DG
Magnesium	12	mg/L		1	EPA 200.7	09/24/2012 1744	DG
Potassium	2	mg/L		1	EPA 200.7	09/24/2012 1744	DG
Sodium	10	mg/L		1	EPA 200.7	09/24/2012 1744	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1422	RH
Silica as SiO2	75	mg/L		1	EPA 200.7	09/24/2012 1744	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 046	KV
Electrical Conductivity	278	µmhos/cm		1	SM 2510B	09/23/2012 046	KV
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	09/21/2012 1626	JCG
Data Quality							
Cation Sum	3.08	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.31	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.59	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	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 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

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-012
ClientSample ID: Well 746
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1744	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/21/2012 2102	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2102	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1744	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2102	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1744	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2102	MS
Iron	0.15	mg/L		0.03	EPA 200.7	09/24/2012 1744	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2102	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1744	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1204	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2102	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1744	DG
[redacted]enium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2102	MS
[redacted]nium	0.0069	mg/L		0.0003	EPA 200.8	09/21/2012 2102	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2102	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	09/24/2012 1744	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2259	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	75.3	%		0.2	ACW10	10/08/2012 928	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 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

[redacted]eviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-012
ClientSample ID: Well 746
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	80.9	%		0.2	ACW10	10/13/2012 756	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-035
Client Sample ID: 746

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/29/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0075	mg/L		0.0003		E200.8	12/20/12 19:48 / cp
Uranium, Activity	5.1E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:48 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:28 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:28 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 23:26 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 23:26 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 23:26 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 11:57 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 11:57 / plj
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 11:57 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 13:10 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 13:10 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 13:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/25/12 21:18 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 21:18 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 21:18 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 13:11 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 13:11 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 13:11 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-012
ClientSample ID: Well 746
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 8:56:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0073	mg/L		0.0003	EPA 200.8	03/21/2013 1458	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1530	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1851	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1851	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 1353	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 1353	MB
Thorium 229 Tracer (30-120)	71.8	pCi/L			ACW10	04/08/2013 1353	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/06/2013 1845	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 1845	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 1246	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 1246	MB
Thorium 229 Tracer (30-120)	81.2	pCi/L			ACW10	04/09/2013 1246	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-001
Client Sample ID: Well #747

Report Date: 05/11/11
Collection Date: 03/25/11
DateReceived: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	131	mg/L		1		A2320 B	03/29/11 18:48 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	03/29/11 18:48 / jba
Bicarbonate as HCO3	160	mg/L		1		A2320 B	03/29/11 18:48 / jba
Calcium	31	mg/L		1		E200.7	04/05/11 15:40 / cp
Chloride	3	mg/L		1		E300.0	03/30/11 22:57 / ljl
Fluoride	1.0	mg/L		0.1		A4500-F C	04/04/11 11:11 / lr
Magnesium	7	mg/L		1		E200.7	04/05/11 15:40 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/31/11 12:37 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/29/11 16:50 / dc
Potassium	3	mg/L		1		E200.7	04/05/11 15:40 / cp
Silica	85.5	mg/L		0.2		E200.7	04/05/11 15:40 / cp
Sodium	13	mg/L		1		E200.7	04/05/11 15:40 / cp
Sulfate	5	mg/L		1		E300.0	03/30/11 22:57 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	255	umhos/cm		1		A2510 B	03/29/11 14:28 / lr
pH	8.07	s.u.		0.01		A4500-H B	03/29/11 14:28 / lr
Solids, Total Dissolved TDS @ 180 C	202	mg/L		10		A2540 C	03/29/11 15:34 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Arsenic	0.005	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 10:33 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 10:33 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 10:33 / sml
Iron	ND	mg/L		0.03		E200.8	03/31/11 10:33 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 10:33 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 10:33 / sml
Selenium	ND	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Uranium	0.0101	mg/L		0.0003		E200.8	03/31/11 10:33 / sml
Uranium, Activity	6.8E-09	uCi/mL		2.0E-10		E200.8	03/31/11 10:33 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Zinc	0.07	mg/L		0.01		E200.7	04/05/11 15:40 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:22 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:22 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-001
Client Sample ID: Well #747

Report Date: 05/11/11
Collection Date: 03/25/11
DateReceived: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/26/11 04:30 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/26/11 04:30 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/26/11 04:30 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	0.20	pCi/L		0.1		E903.0	04/06/11 21:14 / ep
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/06/11 21:14 / ep
Radium 226 MDC	0.1	pCi/L				E903.0	04/06/11 21:14 / ep
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 21:10 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 21:10 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 21:10 / eli-cs
Polonium 210	0.3	pCi/L		0.2		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	<0.09	pCi/L	U	0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.49	%				Calculation	04/07/11 12:42 / kbh
Anions	2.94	meq/L				Calculation	04/07/11 12:42 / kbh
Cations	2.75	meq/L				Calculation	04/07/11 12:42 / kbh
Solids, Total Dissolved Calculated	255	mg/L				Calculation	04/07/11 12:42 / kbh
TDS Balance (0.80 - 1.20)	0.790					Calculation	04/07/11 12:42 / kbh

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-005
Client Sample ID: Well #747

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0134	mg/L		0.0003		E200.8	06/29/12 16:49 / cp
Uranium, Activity	9.1E-09	uCi/mL		2.0E-10		E200.8	06/29/12 16:49 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:42 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:42 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/09/12 01:57 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/09/12 01:57 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/09/12 01:57 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.11	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 12:48 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 12:48 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 12:48 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/08/12 21:00 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/08/12 21:00 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/08/12 21:00 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:54 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/29/12 08:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:54 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-007
ClientSample ID: Well 747
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0078	mg/L		0.0003	EPA 200.8	09/21/2012 036	MS
Uranium Activity	5.3	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1449	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.6	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	72.5	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/11/2012 000	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 000	SH
Polonium 210	ND	pCi/L		1	OTW01	10/11/2012 1727	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/11/2012 1727	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/16/2012 1046	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/16/2012 1046	MB
Thorium 229 Tracer (30-120)	87.6	%		0.2	ACW10	10/16/2012 1046	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-006
Client Sample ID: 747

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0061	mg/L		0.0003		E200.8	12/20/12 18:06 / cp
Uranium, Activity	4.2E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:06 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:54 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:54 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 03:06 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 03:06 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 03:06 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 11:58 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 11:58 / dmf
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 11:58 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 07:53 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 07:53 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 07:53 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.09	pCi/L	U	0.09		E903.0	12/20/12 14:14 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/20/12 14:14 / trs
Radium 226 MDC	0.09	pCi/L				E903.0	12/20/12 14:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-011
ClientSample ID: Well 747
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 9:16:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0047	mg/L		0.0003	EPA 200.8	03/21/2013 1453	MS
Uranium Activity	3.2	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1525	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1851	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1851	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 1353	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 1353	MB
Thorium 229 Tracer (30-120)	65.2	pCi/L			ACW10	04/08/2013 1353	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/06/2013 1845	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 1845	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 812	MB
Thorium 229 Tracer (30-120)	69.2	pCi/L			ACW10	04/09/2013 812	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-006
Client Sample ID: Well #748

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0082	mg/L		0.0003		E200.8	06/29/12 16:50 / cp
Uranium, Activity	5.6E-09	uCi/mL		2.0E-10		E200.8	06/29/12 16:50 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:44 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:44 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/09/12 05:17 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/09/12 05:17 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/09/12 05:17 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 12:48 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 12:48 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 12:48 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/08/12 23:05 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/08/12 23:05 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/08/12 23:05 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:54 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/29/12 08:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:54 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-008
ClientSample ID: Well 748
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0051	mg/L		0.0003	EPA 200.8	09/21/2012 041	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1501	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	78.0	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	86.9	%		0.2	ACW10	10/17/2012 844	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-007
Client Sample ID: 748

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0043	mg/L		0.0003		E200.8	12/20/12 18:07 / cp
Uranium, Activity	2.9E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:07 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:55 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:55 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 05:21 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 05:21 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 05:21 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 09:35 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 09:35 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 09:35 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 14:14 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/20/12 14:14 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 14:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/29/2013
Report ID: S1303398001

ProjectName: Marsland Private Wells 1st Qtr 2013
Lab ID: S1303398-003
ClientSample ID: Well 748
COC:

WorkOrder: S1303398
CollectionDate: 3/21/2013 1:00:00 PM
DateReceived: 3/26/2013 2:15:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0042	mg/L		0.0003	EPA 200.8	03/26/2013 2335	MS
Uranium Activity	2.8	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/02/2013 1418	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/19/2013 1220	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/19/2013 1220	SH
Polonium 210	ND	pCi/L		1	OTW01	04/18/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/18/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/10/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/10/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/23/2013 809	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/23/2013 809	MB
Thorium 229 Tracer (30-120)	102	%			ACW10	04/23/2013 809	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/26/2013 926	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/26/2013 926	SH
Polonium 210	ND	pCi/L		1	OTW01	04/24/2013 1615	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/24/2013 1615	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/15/2013 1413	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/15/2013 1413	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/16/2013 1218	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/16/2013 1218	MB
Thorium 229 Tracer (30-120)	21.4	pCi/L			ACW10	04/16/2013 1218	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-007
Client Sample ID: Well #750

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0054	mg/L		0.0003		E200.8	06/29/12 17:22 / cp
Uranium, Activity	3.7E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:22 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 18:47 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 18:47 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	07/09/12 08:38 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/12 08:38 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	07/09/12 08:38 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 12:48 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	07/18/12 12:48 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 12:48 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/12 01:10 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/12 01:10 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/12 01:10 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/13/12 10:36 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/13/12 10:36 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/13/12 10:36 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 13:58 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 13:58 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 13:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:54 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/29/12 08:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:54 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-009
ClientSample ID: Well 750
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0059	mg/L		0.0003	EPA 200.8	09/21/2012 046	MS
Uranium Activity	4.0	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1505	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	2.1	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	0.7	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	74.5	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	91.9	%		0.2	ACW10	10/17/2012 844	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-008
Client Sample ID: 750

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0058	mg/L		0.0003		E200.8	12/20/12 18:09 / cp
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:09 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:57 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:57 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 07:36 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 07:36 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 07:36 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.7	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 12:47 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/12/12 12:47 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 12:47 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 11:17 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 11:17 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 11:17 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-010
ClientSample ID: Well 750
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 9:39:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0066	mg/L		0.0003	EPA 200.8	03/21/2013 1448	MS
Uranium Activity	4.5	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1456	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1716	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1716	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1501	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1501	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 1353	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 1353	MB
Thorium 229 Tracer (30-120)	73.2	pCi/L			ACW10	04/08/2013 1353	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/06/2013 1845	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 1845	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 812	MB
Thorium 229 Tracer (30-120)	70.1	pCi/L			ACW10	04/09/2013 812	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-002
Client Sample ID: Well #752

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0096	mg/L		0.0003		E200.8	07/09/12 19:08 / cp
Uranium, Activity	6.5E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:08 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:44 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:44 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 00:23 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 00:23 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 00:23 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/12/12 16:31 / dmf
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/12/12 16:31 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	07/12/12 16:31 / dmf
Radium 226	0.29	pCi/L		0.19		E903.0	07/03/12 21:26 / trs
Radium 226 precision (±)	0.16	pCi/L				E903.0	07/03/12 21:26 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/03/12 21:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	07/31/12 23:17 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/31/12 23:17 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	07/31/12 23:17 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-007
ClientSample ID: Well 752
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0087	mg/L		0.0003	EPA 200.8	09/12/2012 1501	MS
Uranium Activity	5.9	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2239	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	72.4	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/04/2012 1215	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/04/2012 1215	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1303	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1303	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	76.8	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-021
Client Sample ID: 752

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0087	mg/L		0.0003		E200.8	12/20/12 18:48 / cp
Uranium, Activity	5.9E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:48 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:00 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:00 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/21/12 12:46 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/21/12 12:46 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/21/12 12:46 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.6	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/24/12 23:08 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/24/12 23:08 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/24/12 23:08 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 11:24 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/18/12 11:24 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 11:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-010
ClientSample ID: Well 752
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 12:18:00 PM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0070	mg/L		0.0003	EPA 200.8	03/22/2013 1339	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 1913	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 822	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 822	MB
Thorium 229 Tracer (30-120)	52.7	%			ACW10	04/04/2013 822	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1427	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1427	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1106	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1106	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	79.10	%			ACW10	04/12/2013 1217	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-003
Client Sample ID: Well #753

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0059	mg/L		0.0003		E200.8	07/09/12 19:13 / cp
Uranium, Activity	4.0E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:13 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:52 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:52 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 02:06 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 02:06 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 02:06 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/23/12 08:12 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/23/12 08:12 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/23/12 08:12 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	07/03/12 21:26 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/03/12 21:26 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/03/12 21:26 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 00:04 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 00:04 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 00:04 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-009
ClientSample ID: Well 753
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0057	mg/L		0.0003	EPA 200.8	09/12/2012 1511	MS
Uranium Activity	3.9	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2259	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	89.2	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	10/04/2012 1215	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	10/04/2012 1215	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1303	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1303	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	76.9	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-022
Client Sample ID: 753

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0055	mg/L		0.0003		E200.8	12/20/12 19:16 / cp
Uranium, Activity	3.7E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:16 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:12 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:12 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/21/12 15:01 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/21/12 15:01 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/21/12 15:01 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.6	pCi/L		0.6		E909.0	12/25/12 00:43 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 00:43 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 00:43 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 11:24 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/18/12 11:24 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 11:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-011
ClientSample ID: Well 753
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 12:10:00 PM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0054	mg/L		0.0003	EPA 200.8	03/22/2013 1344	MS
Uranium Activity	3.7	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 1942	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.3	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 822	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 822	MB
Thorium 229 Tracer (30-120)	42.2	%			ACW10	04/04/2013 822	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1427	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1427	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1106	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1106	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	92.6	%			ACW10	04/12/2013 1217	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-004
Client Sample ID: Well #754

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0082	mg/L		0.0003		E200.8	07/09/12 19:15 / cp
Uranium, Activity	5.5E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:15 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:54 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:54 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 03:48 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 03:48 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 03:48 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	9.5	pCi/L		0.19		E903.0	07/03/12 21:26 / trs
Radium 226 precision (±)	0.67	pCi/L				E903.0	07/03/12 21:26 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/03/12 21:26 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 00:52 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 00:52 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 00:52 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-008
ClientSample ID: Well 754
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0065	mg/L		0.0003	EPA 200.8	09/12/2012 1506	MS
Uranium Activity	4.4	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2254	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	71.5	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/04/2012 1215	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/04/2012 1215	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1303	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1303	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	67.9	%		0.2	ACW10	09/25/2012 000	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-023
Client Sample ID: 754

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0077	mg/L		0.0003		E200.8	12/20/12 19:17 / cp
Uranium, Activity	5.2E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:17 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:15 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:15 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/21/12 17:16 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/21/12 17:16 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/21/12 17:16 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.6	pCi/L		0.6		E909.0	12/25/12 02:18 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 02:18 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 02:18 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/18/12 11:24 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/18/12 11:24 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	12/18/12 11:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-012
ClientSample ID: Well 754
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 12:05:00 PM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0067	mg/L		0.0003	EPA 200.8	03/22/2013 1413	MS
Uranium Activity	4.5	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 1947	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.8	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.7	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 822	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 822	MB
Thorium 229 Tracer (30-120)	46.4	%			ACW10	04/04/2013 822	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1427	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1427	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1106	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1106	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	87.7	%			ACW10	04/12/2013 1217	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-005
Client Sample ID: Well #755

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0075	mg/L		0.0003		E200.8	07/09/12 19:16 / cp
Uranium, Activity	5.1E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:16 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:56 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:56 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 05:30 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 05:30 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 05:30 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/23/12 08:12 / plj
Polonium 210 precision (±)	0.8	pCi/L				E912.0	07/23/12 08:12 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/23/12 08:12 / plj
Radium 226	2.4	pCi/L		0.17		E903.0	07/17/12 22:23 / gb
Radium 226 precision (±)	0.32	pCi/L				E903.0	07/17/12 22:23 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/17/12 22:23 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 01:39 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 01:39 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 01:39 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-006
ClientSample ID: Well 755
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/7/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0051	mg/L		0.0003	EPA 200.8	09/12/2012 1456	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2234	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.8	pCi/L		1	OTW01	09/28/2012 1201	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	09/28/2012 1201	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1350	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1350	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/27/2012 904	MB
ıorium 230 Precision (±)	NA	pCi/L			ACW10	09/27/2012 904	MB
Thorium 229 Tracer (30-120)	78.5	%		0.2	ACW10	09/27/2012 904	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/03/2012 1448	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1448	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1134	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1134	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	79.5	%		0.2	ACW10	09/25/2012 000	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-030
Client Sample ID: 755

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0052	mg/L		0.0003		E200.8	12/20/12 19:29 / cp
Uranium, Activity	3.5E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:29 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:50 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:50 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 12:10 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 12:10 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 12:10 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.9	pCi/L		0.6		E909.0	12/25/12 13:23 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 13:23 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 13:23 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 13:11 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 13:11 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 13:11 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-013
ClientSample ID: Well 755
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 12:30:00 PM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0051	mg/L		0.0003	EPA 200.8	03/22/2013 1418	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 1952	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.8	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 823	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 823	MB
Thorium 229 Tracer (30-120)	51.1	%			ACW10	04/04/2013 823	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1427	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1427	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1106	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1106	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	83.8	%			ACW10	04/12/2013 1217	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-002
Client Sample ID: 759 (B. Oetken)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	163	mg/L		1		A2320 B	04/05/11 22:42 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/05/11 22:42 / jba
Bicarbonate as HCO3	199	mg/L		1		A2320 B	04/05/11 22:42 / jba
Calcium	21	mg/L		1		E200.7	04/07/11 23:02 / cp
Chloride	2	mg/L		1		E300.0	04/08/11 05:06 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/08/11 09:45 / jba
Magnesium	3	mg/L		1		E200.7	04/07/11 23:02 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/06/11 15:12 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	04/07/11 13:53 / dc
Potassium	6	mg/L		1		E200.7	04/07/11 23:02 / cp
Silica	74.9	mg/L		0.2		E200.7	04/07/11 23:02 / cp
Sodium	49	mg/L		1		E200.7	04/07/11 23:02 / cp
Sulfate	15	mg/L		1		E300.0	04/08/11 05:06 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	323	umhos/cm		1		A2510 B	04/05/11 14:59 / lr
pH	7.70	s.u.		0.01		A4500-H B	04/05/11 14:59 / lr
Solids, Total Dissolved TDS @ 180 C	236	mg/L		10		A2540 C	04/05/11 15:36 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/07/11 08:04 / sml
Arsenic	0.006	mg/L		0.001		E200.8	04/07/11 08:04 / sml
Barium	ND	mg/L		0.1		E200.8	04/07/11 08:04 / sml
Boron	ND	mg/L		0.1		E200.8	04/07/11 08:04 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/07/11 08:04 / sml
Chromium	ND	mg/L		0.05		E200.8	04/07/11 08:04 / sml
Copper	ND	mg/L		0.01		E200.8	04/07/11 08:04 / sml
Iron	ND	mg/L		0.03		E200.8	04/07/11 08:04 / sml
Lead	ND	mg/L		0.001		E200.8	04/07/11 08:04 / sml
Manganese	ND	mg/L		0.01		E200.8	04/07/11 08:04 / sml
Mercury	ND	mg/L		0.001		E200.8	04/07/11 08:04 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/07/11 08:04 / sml
Nickel	ND	mg/L		0.05		E200.8	04/07/11 08:04 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/07/11 08:04 / sml
Uranium	0.0072	mg/L		0.0003		E200.8	04/07/11 08:04 / sml
Uranium, Activity	4.9E-09	uCi/mL		2.0E-10		E200.8	04/07/11 08:04 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/07/11 08:04 / sml
Zinc	0.01	mg/L		0.01		E200.8	04/07/11 08:04 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 15:49 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 15:49 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040105-002
Client Sample ID: 759 (B. Oetken)

Report Date: 05/25/11
Collection Date: 03/31/11
DateReceived: 04/05/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/10/11 23:28 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/10/11 23:28 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/10/11 23:28 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.2	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 07:34 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 07:34 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 07:34 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/26/11 01:26 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/26/11 01:26 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 01:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.48	%				Calculation	04/12/11 13:48 / kbh
Anions	3.70	meq/L				Calculation	04/12/11 13:48 / kbh
Cations	3.59	meq/L				Calculation	04/12/11 13:48 / kbh
Solids, Total Dissolved Calculated	292	mg/L				Calculation	04/12/11 13:48 / kbh
TDS Balance (0.80 - 1.20)	0.810					Calculation	04/12/11 13:48 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-005
Client Sample ID: Well #759

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	153	mg/L		1		A2320 B	06/17/11 13:18 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	06/17/11 13:18 / jba
Bicarbonate as HCO3	187	mg/L		1		A2320 B	06/17/11 13:18 / jba
Calcium	31	mg/L		1		E200.7	06/17/11 16:47 / cp
Chloride	2	mg/L		1		E300.0	06/18/11 16:50 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	06/16/11 14:28 / jba
Magnesium	6	mg/L		1		E200.7	06/17/11 16:47 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	06/17/11 15:15 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	06/16/11 14:36 / dc
Potassium	5	mg/L		1		E200.7	06/17/11 16:47 / cp
Silica	69.1	mg/L		0.2		E200.7	07/08/11 14:06 / cp
Sodium	25	mg/L		1		E200.7	06/17/11 16:47 / cp
Sulfate	8	mg/L		1		E300.0	06/18/11 16:50 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	294	umhos/cm		1		A2510 B	06/16/11 15:03 / wc
pH	7.97	s.u.		0.01		A4500-H B	06/16/11 15:03 / wc
Solids, Total Dissolved TDS @ 180 C	212	mg/L		10		A2540 C	06/16/11 16:49 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	06/17/11 16:47 / cp
Arsenic	0.004	mg/L		0.001		E200.8	06/17/11 22:01 / sml
Barium	0.1	mg/L		0.1		E200.7	06/17/11 16:47 / cp
Boron	0.1	mg/L		0.1		E200.7	06/17/11 16:47 / cp
Cadmium	ND	mg/L		0.005		E200.8	06/17/11 22:01 / sml
Chromium	ND	mg/L		0.05		E200.8	06/17/11 22:01 / sml
Copper	ND	mg/L		0.01		E200.8	06/17/11 22:01 / sml
Iron	ND	mg/L		0.03		E200.7	06/17/11 16:47 / cp
Lead	ND	mg/L		0.001		E200.8	06/17/11 22:01 / sml
Manganese	ND	mg/L		0.01		E200.8	06/17/11 22:01 / sml
Mercury	ND	mg/L		0.001		E200.8	06/17/11 22:01 / sml
Molybdenum	ND	mg/L		0.1		E200.7	06/17/11 16:47 / cp
Nickel	ND	mg/L		0.05		E200.7	06/17/11 16:47 / cp
Selenium	ND	mg/L		0.001		E200.8	06/17/11 22:01 / sml
Uranium	0.0064	mg/L		0.0003		E200.8	06/17/11 22:01 / sml
Uranium, Activity	4.3E-09	uCi/mL		2.0E-10		E200.8	06/17/11 22:01 / sml
Vanadium	ND	mg/L		0.1		E200.8	06/17/11 22:01 / sml
Zinc	0.01	mg/L		0.01		E200.8	06/17/11 22:01 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	06/23/11 03:48 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	06/23/11 03:48 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11060669-005
Client Sample ID: Well #759

Report Date: 07/15/11
Collection Date: 06/10/11
DateReceived: 06/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	07/07/11 09:48 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	07/07/11 09:48 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	07/07/11 09:48 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/07/11 11:16 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/07/11 11:16 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	07/07/11 11:16 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	06/27/11 12:03 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/27/11 12:03 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	06/27/11 12:03 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/30/11 10:26 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	06/30/11 10:26 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/30/11 10:26 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/11 21:21 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/11 21:21 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/11 21:21 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/05/11 09:58 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/05/11 09:58 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	07/05/11 09:58 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	07/05/11 23:13 / dmf
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/05/11 23:13 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	07/05/11 23:13 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/28/11 09:02 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	06/28/11 09:02 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/28/11 09:02 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.77	%				Calculation	06/27/11 09:16 / kbh
Anions	3.35	meq/L				Calculation	06/27/11 09:16 / kbh
Cations	3.24	meq/L				Calculation	06/27/11 09:16 / kbh
Solids, Total Dissolved Calculated	262	mg/L				Calculation	06/27/11 09:16 / kbh
TDS Balance (0.80 - 1.20)	0.810					Calculation	06/27/11 09:16 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-002
Client Sample ID: Well #759

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	144	mg/L		1		A2320 B	09/27/11 17:04 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 17:04 / jba
Bicarbonate as HCO3	175	mg/L		1		A2320 B	09/27/11 17:04 / jba
Calcium	31	mg/L		1		E200.7	10/26/11 17:19 / cp
Chloride	2	mg/L		1		E300.0	10/05/11 02:50 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	09/28/11 10:25 / jba
Magnesium	6	mg/L		1		E200.7	10/26/11 17:19 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 15:46 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	10/20/11 11:41 / ljl
Potassium	5	mg/L		1		E200.7	10/26/11 17:19 / cp
Silica	75.3	mg/L		0.2		E200.7	10/26/11 17:19 / cp
Sodium	23	mg/L		1		E200.7	10/26/11 17:19 / cp
Sulfate	8	mg/L		1		E300.0	10/05/11 02:50 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	299	umhos/cm		1		A2510 B	09/27/11 15:27 / lmc
pH	8.05	s.u.		0.01		A4500-H B	09/27/11 15:27 / lmc
Solids, Total Dissolved TDS @ 180 C	217	mg/L		10		A2540 C	09/27/11 17:18 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:19 / cp
Arsenic	0.004	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Barium	0.2	mg/L		0.1		E200.8	10/11/11 04:24 / sml
Boron	0.1	mg/L		0.1		E200.7	10/26/11 17:19 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:24 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:19 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 04:24 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:19 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:04 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:24 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:24 / sml
Selenium	0.001	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Uranium	0.0075	mg/L		0.0003		E200.8	10/11/11 04:24 / sml
Uranium, Activity	5.1E-09	uCi/mL		2.0E-10		E200.8	10/11/11 04:24 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:04 / cp
Zinc	0.04	mg/L		0.01		E200.7	10/26/11 17:19 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:25 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:25 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-002
Client Sample ID: Well #759

Report Date: 11/10/11
Collection Date: 09/22/11
DateReceived: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/19/11 08:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	10/19/11 08:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/19/11 08:00 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	0.7	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 12:08 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 12:08 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 12:08 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.123	%				Calculation	11/02/11 12:38 / kbh
Anions	3.17	meq/L				Calculation	11/02/11 12:38 / kbh
Cations	3.18	meq/L				Calculation	11/02/11 12:38 / kbh
Solids, Total Dissolved Calculated	260	mg/L				Calculation	11/02/11 12:38 / kbh
TDS Balance (0.80 - 1.20)	0.830					Calculation	11/02/11 12:38 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-002
Client Sample ID: Well #759

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	12/20/11 18:54 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 18:54 / jba
Bicarbonate as HCO3	170	mg/L		1		A2320 B	12/20/11 18:54 / jba
Calcium	32	mg/L		1		E200.8	12/21/11 22:53 / sml
Chloride	2	mg/L		1		E300.0	12/28/11 04:15 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/11 11:56 / jba
Magnesium	6	mg/L		1		E200.8	12/30/11 18:41 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:16 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	12/21/11 13:13 / dc
Potassium	5	mg/L		1		E200.8	12/21/11 22:53 / sml
Silica	71.9	mg/L		0.2		E200.7	01/12/12 18:18 / cp
Sodium	25	mg/L		1		E200.8	12/30/11 18:41 / sml
Sulfate	7	mg/L		1		E300.0	12/28/11 04:15 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	307	umhos/cm		1		A2510 B	12/20/11 17:00 / wc
pH	7.76	s.u.	H	0.01		A4500-H B	12/21/11 10:30 / wc
Solids, Total Dissolved TDS @ 180 C	203	mg/L		10		A2540 C	12/20/11 16:54 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:41 / sml
Arsenic	0.003	mg/L		0.001		E200.8	12/21/11 22:53 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 18:41 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:41 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:41 / sml
Chromium	ND	mg/L		0.05		E200.8	12/21/11 22:53 / sml
Copper	ND	mg/L		0.01		E200.8	12/21/11 22:53 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 18:41 / sml
Lead	ND	mg/L		0.001		E200.8	12/21/11 22:53 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:41 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:41 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:18 / cp
Nickel	ND	mg/L		0.05		E200.8	12/21/11 22:53 / sml
Selenium	ND	mg/L		0.001		E200.8	12/30/11 18:41 / sml
Uranium	0.0049	mg/L		0.0003		E200.8	12/30/11 18:41 / sml
Uranium, Activity	3.3E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:41 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/21/11 22:53 / sml
Zinc	0.10	mg/L		0.01		E200.8	12/21/11 22:53 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:12 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:12 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-002
Client Sample ID: Well #759

Report Date: 02/28/12
Collection Date: 12/15/11
DateReceived: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 06:42 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 06:42 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 06:42 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	1.0	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 12:05 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 12:05 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 12:05 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	4.27	%				Calculation	01/04/12 08:42 / kbh
Anions	3.08	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	3.35	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	166	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.22					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-031
Client Sample ID: 760

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0069	mg/L		0.0003		E200.8	12/20/12 19:37 / cp
Uranium, Activity	4.7E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:37 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:54 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:54 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 14:25 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 14:25 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 14:25 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/25/12 14:58 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 14:58 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 14:58 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 13:11 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/18/12 13:11 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 13:11 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-014
ClientSample ID: Well 760
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 1:06:00 PM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0065	mg/L		0.0003	EPA 200.8	03/22/2013 1423	MS
Uranium Activity	4.4	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 1957	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 1309	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 1309	MB
Thorium 229 Tracer (30-120)	56.6	%			ACW10	04/04/2013 1309	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1427	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1427	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1106	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1106	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	87.3	%			ACW10	04/12/2013 1217	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-033
Client Sample ID: Well #777

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0113	mg/L		0.0003		E200.8	06/29/12 18:35 / cp
Uranium, Activity	7.7E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:35 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:51 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:51 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/14/12 00:16 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/14/12 00:16 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/14/12 00:16 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/06/12 09:35 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	07/06/12 09:35 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	07/06/12 09:35 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 19:19 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 19:19 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 19:19 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 22:06 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 22:06 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 22:06 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-004
ClientSample ID: Well 777
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	302	mg/L		5	SM 2320B	09/22/2012 2237	KV
Alkalinity, Bicarbonate as HCO3	369	mg/L		5	SM 2320B	09/22/2012 2237	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/22/2012 2237	KV
Chloride	4	mg/L		1	EPA 300.0	09/24/2012 2012	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/22/2012 2237	KV
Nitrogen, Nitrate+Nitrite (as N)	3.0	mg/L		0.1	EPA 353.2	09/24/2012 1622	RH
Sulfate	15	mg/L		1	EPA 300.0	09/24/2012 2012	AM
Calcium	73	mg/L		1	EPA 200.7	09/24/2012 1711	DG
Magnesium	10	mg/L		1	EPA 200.7	09/24/2012 1711	DG
Potassium	7	mg/L		1	EPA 200.7	09/24/2012 1711	DG
Sodium	38	mg/L		1	EPA 200.7	09/24/2012 1711	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1537	RH
Silica as SiO2	53	mg/L		1	EPA 200.7	09/24/2012 1711	DG
General Parameters							
pH	8.2	s.u.		0.1	SM 4500 H B	09/22/2012 2237	KV
Electrical Conductivity	578	µmhos/cm		1	SM 2510B	09/22/2012 2237	KV
Total Dissolved Solids (180)	400	mg/L		10	SM 2540	09/21/2012 1617	JCG
Data Quality							
Cation Sum	6.29	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	6.71	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.20	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	400	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	10/23/2012 1434	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 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

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Sample Analysis Report

[redacted]mpany: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-004
ClientSample ID: Well 777
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1711	DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	09/21/2012 1958	MS
Barium	0.2	mg/L		0.1	EPA 200.8	09/21/2012 1958	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1711	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 1958	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1711	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1958	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1711	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1958	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1711	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1136	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1958	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1711	DG
[redacted]nium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1958	MS
[redacted]ium	0.0148	mg/L		0.0003	EPA 200.8	09/21/2012 1958	MS
Uranium Activity	10.0	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 1958	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1711	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2219	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	3.0	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/05/2012 1225	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/05/2012 1225	MB
Thorium 229 Tracer (30-120)	87.7	%		0.2	ACW10	10/05/2012 1225	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 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

[redacted]viewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-004
ClientSample ID: Well 777
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.5	pCi/L	B	1	OTW01	10/19/2012 1302	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L	B		OTW01	10/19/2012 1302	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1217	SH
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	10/18/2012 1217	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	0.2	pCi/L		0.2	ACW10	10/12/2012 1314	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/12/2012 1314	MB
Thorium 229 Tracer (30-120)	70.1	%		0.2	ACW10	10/12/2012 1314	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-024
Client Sample ID: 777

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/27/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0136	mg/L		0.0003		E200.8	12/20/12 19:19 / cp
Uranium, Activity	9.2E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:19 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 18:31 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 18:31 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/21/12 19:30 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/21/12 19:30 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/21/12 19:30 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/13/12 16:58 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/13/12 16:58 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/13/12 16:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.7	pCi/L		0.6		E909.0	12/25/12 03:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 03:53 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 03:53 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.8	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 11:24 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/18/12 11:24 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 11:24 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/10/12 09:21 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/10/12 09:21 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/10/12 09:21 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-015
ClientSample ID: Well 777
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 11:30:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0132	mg/L		0.0003	EPA 200.8	03/22/2013 1428	MS
Uranium Activity	8.9	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2002	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	2.2	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.7	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1420	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1420	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 1309	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 1309	MB
Thorium 229 Tracer (30-120)	60.3	%			ACW10	04/04/2013 1309	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1427	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1427	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1106	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1106	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	81.1	%			ACW10	04/12/2013 1217	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-003
Client Sample ID: Well #788

Report Date: 05/19/11
Collection Date: 03/24/11
DateReceived: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	154	mg/L		1		A2320 B	03/25/11 20:42 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	03/25/11 20:42 / jba
Bicarbonate as HCO3	187	mg/L		1		A2320 B	03/25/11 20:42 / jba
Calcium	34	mg/L		1		E200.7	04/05/11 02:27 / cp
Chloride	3	mg/L		1		E300.0	03/29/11 06:53 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	03/28/11 13:17 / jba
Magnesium	9	mg/L		1		E200.7	04/05/11 02:27 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/28/11 15:27 / dc
Nitrogen, Nitrate+Nitrite as N	2.2	mg/L		0.1		E353.2	03/29/11 14:23 / dc
Potassium	4	mg/L		1		E200.7	04/05/11 02:27 / cp
Silica	69.2	mg/L		0.2		E200.7	05/11/11 13:50 / cp
Sodium	19	mg/L		1		E200.7	04/05/11 02:27 / cp
Sulfate	7	mg/L		1		E300.0	03/29/11 06:53 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	307	umhos/cm		1		A2510 B	03/25/11 15:04 / lmc
pH	7.98	s.u.		0.01		A4500-H B	03/25/11 15:04 / lmc
Solids, Total Dissolved TDS @ 180 C	231	mg/L		10		A2540 C	03/28/11 14:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Arsenic	0.003	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Barium	0.1	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:28 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:28 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:28 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:27 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:28 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:28 / sml
Selenium	0.001	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Uranium	0.0072	mg/L		0.0003		E200.8	03/31/11 08:28 / sml
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:28 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Zinc	0.07	mg/L		0.01		E200.7	04/05/11 02:27 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:09 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:09 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-003
Client Sample ID: Well #788

Report Date: 05/19/11
Collection Date: 03/24/11
DateReceived: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/25/11 19:44 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/25/11 19:44 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/25/11 19:44 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/30/11 11:18 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	03/30/11 11:18 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/30/11 11:18 / ep
Radium 226	0.67	pCi/L		0.11		E903.0	04/04/11 21:16 / dmf
Radium 226 precision (±)	0.16	pCi/L				E903.0	04/04/11 21:16 / dmf
Radium 226 MDC	0.11	pCi/L				E903.0	04/04/11 21:16 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 14:36 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 14:36 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 14:36 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	<0.09	pCi/L	U	0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.80	%				Calculation	04/07/11 12:22 / kbh
Anions	3.48	meq/L				Calculation	04/07/11 12:22 / kbh
Cations	3.36	meq/L				Calculation	04/07/11 12:22 / kbh
Solids, Total Dissolved Calculated	275	mg/L				Calculation	04/07/11 12:22 / kbh
TDS Balance (0.80 - 1.20)	0.840					Calculation	04/07/11 12:22 / kbh

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MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-001
Client Sample ID: Well #788

Report Date: 08/14/12
Collection Date: 06/22/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0081	mg/L		0.0003		E200.8	07/09/12 19:06 / cp
Uranium, Activity	5.5E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:06 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:42 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:42 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/15/12 22:41 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/15/12 22:41 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/15/12 22:41 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/12/12 16:32 / dmf
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/12/12 16:32 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	07/12/12 16:32 / dmf
Radium 226	<0.19	pCi/L	U	0.19		E903.0	07/03/12 21:26 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/03/12 21:26 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/03/12 21:26 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	07/31/12 22:29 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/31/12 22:29 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	07/31/12 22:29 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-008
ClientSample ID: Well 788
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	148	mg/L		5	SM 2320B	10/02/2012 1307	KV
Alkalinity, Bicarbonate as HCO3	180	mg/L		5	SM 2320B	10/02/2012 1307	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	10/02/2012 1307	KV
Chloride	3	mg/L		1	EPA 300.0	10/02/2012 1604	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/22/2012 2358	KV
Nitrogen, Nitrate+Nitrite (as N)	3.7	mg/L		0.1	EPA 353.2	09/24/2012 1633	RH
Sulfate	6	mg/L		1	EPA 300.0	10/02/2012 1604	AM
Calcium	32	mg/L		1	EPA 200.7	09/24/2012 1735	DG
Magnesium	9	mg/L		1	EPA 200.7	09/24/2012 1735	DG
Potassium	4	mg/L		1	EPA 200.7	10/02/2012 1542	DG
Sodium	19	mg/L		1	EPA 200.7	09/24/2012 1735	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	09/25/2012 1541	RH
Silica as SiO2	62	mg/L		1	EPA 200.7	09/24/2012 1735	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2012 2358	KV
Electrical Conductivity	305	µmhos/cm		1	SM 2510B	09/22/2012 2358	KV
Total Dissolved Solids (180)	230	mg/L		10	SM 2540	09/21/2012 1622	JCG
Data Quality							
Cation Sum	3.23	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.46	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.40	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

[redacted]mpany: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-008
ClientSample ID: Well 788
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1735	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	09/21/2012 2028	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2028	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1735	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2028	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1735	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2028	MS
Iron	0.07	mg/L		0.03	EPA 200.7	09/24/2012 1735	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2028	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1735	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1157	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2028	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1735	DG
[redacted]nium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2028	MS
[redacted]nium	0.0069	mg/L		0.0003	EPA 200.8	09/21/2012 2028	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2028	MS
Zinc	0.11	mg/L		0.01	EPA 200.7	09/24/2012 1735	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2239	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.7	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	89.8	%		0.2	ACW10	10/08/2012 928	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 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

[redacted]eviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-008
ClientSample ID: Well 788
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/19/2012 1302	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/19/2012 1302	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1217	SH
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	10/18/2012 1217	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	63.9	%		0.2	ACW10	10/13/2012 756	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 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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples December 2012
Lab ID: C12120275-004
Client Sample ID: 788

Report Date: 01/09/13
Collection Date: 12/05/12
DateReceived: 12/07/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0076	mg/L		0.0003		E200.8	12/29/12 01:32 / cp
Uranium, Activity	5.1E-09	uCi/mL		2.0E-10		E200.8	12/29/12 01:32 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/29/12 00:50 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/29/12 00:50 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/30/12 04:38 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/30/12 04:38 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/30/12 04:38 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	01/07/13 09:37 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	01/07/13 09:37 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	01/07/13 09:37 / plj
Radium 226	0.21	pCi/L		0.18		E903.0	12/24/12 09:41 / gb
Radium 226 precision (±)	0.14	pCi/L				E903.0	12/24/12 09:41 / gb
Radium 226 MDC	0.18	pCi/L				E903.0	12/24/12 09:41 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/17/12 14:27 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/17/12 14:27 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/17/12 14:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/29/12 09:48 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/29/12 09:48 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/29/12 09:48 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	01/07/13 11:57 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/07/13 11:57 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	01/07/13 11:57 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/21/12 14:00 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/21/12 14:00 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/21/12 14:00 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/18/12 09:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/18/12 09:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/18/12 09:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303348001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303348-003
ClientSample ID: Well 788
COC: Web

WorkOrder: S1303348
CollectionDate: 3/20/2013 10:25:00 AM
DateReceived: 3/22/2013 2:50:00 PM
FieldSampler: RP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0062	mg/L		0.0003	EPA 200.8	03/23/2013 120	MS
Uranium Activity	4.2	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2209	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1453	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1453	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1110	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1110	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/05/2013 1443	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/05/2013 1443	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/11/2013 1033	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/11/2013 1033	MB
Thorium 229 Tracer (30-120)	73.5	%			ACW10	04/11/2013 1033	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1541	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1541	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 800	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 800	MB
Thorium 229 Tracer (30-120)	46.3	%			ACW10	04/08/2013 800	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-013
Client Sample ID: Well #794

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0055	mg/L		0.0003		E200.8	06/29/12 17:31 / cp
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:31 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 19:10 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 19:10 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/10/12 01:18 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/10/12 01:18 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/10/12 01:18 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.16	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/12 11:35 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/12 11:35 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/12 11:35 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/13/12 13:47 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/13/12 13:47 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/13/12 13:47 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 15:48 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/16/12 15:48 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 15:48 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:55 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	06/29/12 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:55 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-003
ClientSample ID: Well 794
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/6/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0063	mg/L		0.0003	EPA 200.8	09/12/2012 1431	MS
Uranium Activity	4.3	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2219	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.9	pCi/L		1	OTW01	09/27/2012 1507	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	09/27/2012 1507	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1243	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1243	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 902	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 902	MB
Thorium 229 Tracer (30-120)	72.8	%		0.2	ACW10	09/25/2012 902	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/03/2012 1448	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1448	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1134	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1134	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	72.5	%		0.2	ACW10	09/25/2012 000	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples December 2012
Lab ID: C12120275-002
Client Sample ID: 794

Report Date: 01/09/13
Collection Date: 12/05/12
DateReceived: 12/07/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0063	mg/L		0.0003		E200.8	12/29/12 01:26 / cp
Uranium, Activity	4.3E-09	uCi/mL		2.0E-10		E200.8	12/29/12 01:26 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/29/12 00:43 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/29/12 00:43 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/30/12 00:08 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/30/12 00:08 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/30/12 00:08 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	01/07/13 09:37 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/07/13 09:37 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	01/07/13 09:37 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	12/24/12 09:41 / gb
Radium 226 precision (±)	0.11	pCi/L				E903.0	12/24/12 09:41 / gb
Radium 226 MDC	0.18	pCi/L				E903.0	12/24/12 09:41 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/17/12 14:27 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/17/12 14:27 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/17/12 14:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.7	pCi/L		0.6		E909.0	12/29/12 05:38 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/29/12 05:38 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/29/12 05:38 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/07/13 11:57 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/07/13 11:57 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/07/13 11:57 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/21/12 12:06 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/21/12 12:06 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/21/12 12:06 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/18/12 09:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/18/12 09:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/18/12 09:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/29/2013
Report ID: S1303398001

ProjectName: Marsland Private Wells 1st Qtr 2013
Lab ID: S1303398-004
ClientSample ID: Well 794
COC:

WorkOrder: S1303398
CollectionDate: 3/21/2013 8:25:00 AM
DateReceived: 3/26/2013 2:15:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0060	mg/L		0.0003	EPA 200.8	03/26/2013 2340	MS
Uranium Activity	4.1	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/02/2013 1433	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/19/2013 1220	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/19/2013 1220	SH
Polonium 210	ND	pCi/L		1	OTW01	04/18/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/18/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/10/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/10/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/23/2013 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/23/2013 000	MB
Thorium 229 Tracer (30-120)	89.4	pCi/L			ACW10	04/23/2013 000	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/26/2013 926	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/26/2013 926	SH
Polonium 210	ND	pCi/L		1	OTW01	04/24/2013 1615	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/24/2013 1615	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/15/2013 1413	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/15/2013 1413	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/16/2013 1218	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/16/2013 1218	MB
Thorium 229 Tracer (30-120)	37.7	pCi/L			ACW10	04/16/2013 1218	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-012
Client Sample ID: Well #795

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0050	mg/L		0.0003		E200.8	06/29/12 17:29 / cp
Uranium, Activity	3.4E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:29 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 19:07 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 19:07 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/09/12 21:58 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/09/12 21:58 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/09/12 21:58 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.18	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	07/09/12 09:30 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	07/09/12 09:30 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	07/09/12 09:30 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/13/12 13:47 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/13/12 13:47 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/13/12 13:47 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 15:48 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/16/12 15:48 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 15:48 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	06/29/12 08:55 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/29/12 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	06/29/12 08:55 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/5/2012
Report ID: S1209161001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209161-002
ClientSample ID: Well 795
COC: WEB

WorkOrder: S1209161
CollectionDate: 9/6/2012
DateReceived: 9/11/2012 11:52:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0058	mg/L		0.0003	EPA 200.8	09/12/2012 1426	MS
Uranium Activity	3.9	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/18/2012 2214	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/05/2012 1435	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	09/27/2012 1507	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	09/27/2012 1507	SH
Polonium 210	ND	pCi/L		1	OTW01	09/27/2012 1243	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	09/27/2012 1243	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	09/26/2012 1634	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	09/26/2012 1634	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 902	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 902	MB
Thorium 229 Tracer (30-120)	74.9	%		0.2	ACW10	09/25/2012 902	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	10/03/2012 1448	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	10/03/2012 1448	SH
Polonium 210	ND	pCi/L		1	OTW01	10/03/2012 1134	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/03/2012 1134	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/02/2012 1551	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/02/2012 1551	SH
Thorium 230	ND	pCi/L		0.2	ACW10	09/25/2012 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	09/25/2012 000	MB
Thorium 229 Tracer (30-120)	73.5	%		0.2	ACW10	09/25/2012 000	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples December 2012
Lab ID: C12120275-001
Client Sample ID: 795

Report Date: 01/09/13
Collection Date: 12/05/12
DateReceived: 12/07/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0062	mg/L		0.0003		E200.8	12/29/12 01:23 / cp
Uranium, Activity	4.2E-09	uCi/mL		2.0E-10		E200.8	12/29/12 01:23 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/29/12 00:40 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/29/12 00:40 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/29/12 21:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/29/12 21:53 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/29/12 21:53 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	01/07/13 09:37 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/07/13 09:37 / plj
Polonium 210 MDC	1	pCi/L				E912.0	01/07/13 09:37 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	12/24/12 09:41 / gb
Radium 226 precision (±)	0.13	pCi/L				E903.0	12/24/12 09:41 / gb
Radium 226 MDC	0.19	pCi/L				E903.0	12/24/12 09:41 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/17/12 14:27 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/17/12 14:27 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/17/12 14:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.6	pCi/L		0.6		E909.0	12/29/12 03:33 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/29/12 03:33 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/29/12 03:33 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/07/13 11:57 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/07/13 11:57 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/07/13 11:57 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/21/12 12:06 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/21/12 12:06 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/21/12 12:06 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/18/12 09:31 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/18/12 09:31 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/18/12 09:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/29/2013
Report ID: S1303398001

ProjectName: Marsland Private Wells 1st Qtr 2013
Lab ID: S1303398-005
ClientSample ID: Well 795
COC:

WorkOrder: S1303398
CollectionDate: 3/21/2013 8:35:00 AM
DateReceived: 3/26/2013 2:15:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0062	mg/L		0.0003	EPA 200.8	03/26/2013 2345	MS
Uranium Activity	4.2	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/04/2013 1341	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Radionuclides - Dissolved							
Lead 210	1.0	pCi/L		1	OTW01	04/22/2013 1237	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/22/2013 1237	SH
Polonium 210	ND	pCi/L		1	OTW01	04/22/2013 939	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/22/2013 939	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/10/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/10/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/16/2013 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/16/2013 1713	MB
Thorium 229 Tracer (30-120)	41	%			ACW10	04/16/2013 1713	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/26/2013 926	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/26/2013 926	SH
Polonium 210	ND	pCi/L		1	OTW01	04/24/2013 1615	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/24/2013 1615	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/15/2013 1805	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/15/2013 1805	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/16/2013 1717	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/16/2013 1717	MB
Thorium 229 Tracer (30-120)	38	%			ACW10	04/16/2013 1717	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-023
Client Sample ID: Well #799

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0063	mg/L		0.0003		E200.8	06/29/12 18:06 / cp
Uranium, Activity	4.3E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:06 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:22 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:22 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/12/12 14:45 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/12/12 14:45 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/12/12 14:45 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/05/12 14:51 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 14:51 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	07/05/12 14:51 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	07/04/12 06:28 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/04/12 06:28 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	07/04/12 06:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 11:24 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 11:24 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 11:24 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.09	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-010
ClientSample ID: Well 799
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	173	mg/L		5	SM 2320B	09/23/2012 022	KV
Alkalinity, Bicarbonate as HCO3	199	mg/L		5	SM 2320B	09/23/2012 022	KV
Alkalinity, Carbonate as CO3	6	mg/L		5	SM 2320B	09/23/2012 022	KV
Chloride	3	mg/L		1	EPA 300.0	09/24/2012 2215	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/23/2012 022	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	09/24/2012 1635	RH
Sulfate	5	mg/L		1	EPA 300.0	09/24/2012 2215	AM
Calcium	45	mg/L		1	EPA 200.7	09/24/2012 1739	DG
Magnesium	10	mg/L		1	EPA 200.7	09/24/2012 1739	DG
Potassium	3	mg/L		1	EPA 200.7	09/24/2012 1739	DG
Sodium	8	mg/L		1	EPA 200.7	09/24/2012 1739	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1543	RH
Silica as SiO2	63	mg/L		1	EPA 200.7	09/24/2012 1739	DG
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	09/23/2012 022	KV
Electrical Conductivity	314	µmhos/cm		1	SM 2510B	09/23/2012 022	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	09/21/2012 1624	JCG
Data Quality							
Cation Sum	3.47	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.74	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.66	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-010
ClientSample ID: Well 799
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1739	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	09/21/2012 2038	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2038	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1739	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2038	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1739	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2038	MS
Iron	0.04	mg/L		0.03	EPA 200.7	09/24/2012 1739	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2038	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1739	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1200	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2038	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1739	DG
[redacted]enium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2038	MS
[redacted]ium	0.0079	mg/L		0.0003	EPA 200.8	09/21/2012 2038	MS
Uranium Activity	5.4	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2038	MS
Zinc	0.06	mg/L		0.01	EPA 200.7	09/24/2012 1739	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2249	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	1.2	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	91.1	%		0.2	ACW10	10/08/2012 928	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 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

[redacted]viewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-010
ClientSample ID: Well 799
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L	B	1	OTW01	10/19/2012 1302	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L	B		OTW01	10/19/2012 1302	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1217	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/18/2012 1217	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	56.6	%		0.2	ACW10	10/13/2012 756	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-036
Client Sample ID: 799

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/29/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0086	mg/L		0.0003		E200.8	12/20/12 19:50 / cp
Uranium, Activity	5.9E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:50 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:31 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:31 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/28/12 01:41 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/28/12 01:41 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/28/12 01:41 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 11:57 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 11:57 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 11:57 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 13:10 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/13/12 13:10 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 13:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/25/12 22:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 22:53 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 22:53 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/18/12 15:08 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 15:08 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	12/18/12 15:08 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303348001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303348-004
ClientSample ID: Well 799
COC: Web

WorkOrder: S1303348
CollectionDate: 3/20/2013 11:06:00 AM
DateReceived: 3/22/2013 2:50:00 PM
FieldSampler: RP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0076	mg/L		0.0003	EPA 200.8	03/23/2013 125	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2214	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1453	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1453	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1110	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1110	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/05/2013 1443	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/05/2013 1443	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/11/2013 1033	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/11/2013 1033	MB
Thorium 229 Tracer (30-120)	78.8	%			ACW10	04/11/2013 1033	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1541	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1541	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 801	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 801	MB
Thorium 229 Tracer (30-120)	58.8	%			ACW10	04/08/2013 801	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-011
Client Sample ID: Well #802

Report Date: 07/31/12
Collection Date: 06/18/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0045	mg/L		0.0003		E200.8	06/29/12 17:28 / cp
Uranium, Activity	3.0E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:28 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/02/12 19:05 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/02/12 19:05 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/09/12 18:38 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/09/12 18:38 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/09/12 18:38 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/05/12 13:14 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 13:14 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	07/05/12 13:14 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/03/12 16:52 / gb
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/03/12 16:52 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/03/12 16:52 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:29 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/19/12 15:29 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:29 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/09/12 07:25 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	07/09/12 07:25 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/09/12 07:25 / eli-cs
Polonium 210	0.8	pCi/L		0.4		E912.0	07/13/12 13:47 / dmf
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/13/12 13:47 / dmf
Polonium 210 MDC	0.4	pCi/L				E912.0	07/13/12 13:47 / dmf
Radium 226	<0.19	pCi/L	U	0.19		E903.0	07/16/12 15:48 / trs
Radium 226 precision (±)	0.10	pCi/L				E903.0	07/16/12 15:48 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/16/12 15:48 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	06/29/12 08:55 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	06/29/12 08:55 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	06/29/12 08:55 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-011
ClientSample ID: Well 802
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	161	mg/L		5	SM 2320B	09/23/2012 034	KV
Alkalinity, Bicarbonate as HCO3	190	mg/L		5	SM 2320B	09/23/2012 034	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 034	KV
Chloride	3	mg/L		1	EPA 300.0	09/24/2012 2228	AM
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/23/2012 034	KV
Nitrogen, Nitrate+Nitrite (as N)	2.7	mg/L		0.1	EPA 353.2	09/24/2012 1636	RH
Sulfate	3	mg/L		1	EPA 300.0	09/24/2012 2228	AM
Calcium	45	mg/L		1	EPA 200.7	09/24/2012 1742	DG
Magnesium	8	mg/L		1	EPA 200.7	09/24/2012 1742	DG
Potassium	2	mg/L		1	EPA 200.7	09/24/2012 1742	DG
Sodium	8	mg/L		1	EPA 200.7	09/24/2012 1742	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1544	RH
Silica as SiO2	61	mg/L		1	EPA 200.7	09/24/2012 1742	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 034	KV
Electrical Conductivity	298	µmhos/cm		1	SM 2510B	09/23/2012 034	KV
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	09/21/2012 1625	JCG
Data Quality							
Cation Sum	3.29	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.58	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	4.27	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.92	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

[redacted]mpany: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-011
ClientSample ID: Well 802
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1742	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/21/2012 2043	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2043	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1742	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2043	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1742	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2043	MS
Iron	0.09	mg/L		0.03	EPA 200.7	09/24/2012 1742	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2043	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1742	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1202	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2043	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1742	DG
[redacted]nium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2043	MS
[redacted]nium	0.0046	mg/L		0.0003	EPA 200.8	09/21/2012 2043	MS
Uranium Activity	3.1	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2043	MS
Zinc	0.06	mg/L		0.01	EPA 200.7	09/24/2012 1742	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2254	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.1	pCi/L		1	OTW01	10/15/2012 1451	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1451	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1804	SH
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/22/2012 1804	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	89.4	%		0.2	ACW10	10/08/2012 928	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

[redacted]eviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-011
ClientSample ID: Well 802
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	71.1	%		0.2	ACW10	10/13/2012 756	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 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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-037
Client Sample ID: 802

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/29/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0050	mg/L		0.0003		E200.8	12/20/12 19:58 / cp
Uranium, Activity	3.4E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:58 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:34 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:34 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/28/12 03:56 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/28/12 03:56 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/28/12 03:56 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 11:57 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 11:57 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 11:57 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.10	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 13:10 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 13:10 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 13:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/26/12 00:28 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/26/12 00:28 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/26/12 00:28 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 16:02 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 16:02 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 16:02 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/18/12 15:08 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 15:08 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	12/18/12 15:08 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-016
ClientSample ID: Well 802
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 8:46:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0043	mg/L		0.0003	EPA 200.8	03/21/2013 1518	MS
Uranium Activity	2.9	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/26/2013 1550	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1040	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1040	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1851	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1851	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 812	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 812	MB
Thorium 229 Tracer (30-120)	52.9	pCi/L			ACW10	04/09/2013 812	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1040	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1040	SH
Polonium 210	ND	pCi/L		1	OTW01	04/06/2013 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/06/2013 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 918	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 918	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/09/2013 1246	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/09/2013 1246	MB
Thorium 229 Tracer (30-120)	73.9	pCi/L			ACW10	04/09/2013 1246	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-014
Client Sample ID: Well #809

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0067	mg/L		0.0003		E200.8	07/09/12 19:50 / cp
Uranium, Activity	4.6E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:50 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:22 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:22 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 20:48 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 20:48 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 20:48 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.6	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	0.57	pCi/L		0.17		E903.0	07/18/12 00:01 / gb
Radium 226 precision (±)	0.18	pCi/L				E903.0	07/18/12 00:01 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/18/12 00:01 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 08:48 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 08:48 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 08:48 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/23/12 14:46 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/23/12 14:46 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	07/23/12 14:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 15:18 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/17/12 15:18 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 15:18 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 12:49 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 12:49 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 12:49 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-017
ClientSample ID: Well 809
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	170	mg/L		5	SM 2320B	09/23/2012 158	KV
Alkalinity, Bicarbonate as HCO3	198	mg/L		5	SM 2320B	09/23/2012 158	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 158	KV
Chloride	3	mg/L		1	EPA 300.0	09/25/2012 044	AM
Fluoride	0.8	mg/L		0.1	SM 4500FC	09/23/2012 158	KV
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	09/25/2012 1301	RH
Sulfate	4	mg/L		1	EPA 300.0	09/25/2012 044	AM
Calcium	37	mg/L		1	EPA 200.7	09/24/2012 1810	DG
Magnesium	9	mg/L		1	EPA 200.7	09/24/2012 1810	DG
Potassium	5	mg/L		1	EPA 200.7	09/24/2012 1810	DG
Sodium	17	mg/L		1	EPA 200.7	09/24/2012 1810	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1427	RH
Silica as SiO2	62	mg/L		1	EPA 200.7	09/24/2012 1810	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 158	KV
Electrical Conductivity	313	µmhos/cm		1	SM 2510B	09/23/2012 158	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	09/21/2012 1631	JCG
Data Quality							
Cation Sum	3.45	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.67	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.10	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

[redacted]mpany: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-017
ClientSample ID: Well 809
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1810	DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	09/21/2012 2137	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2137	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1810	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2137	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1810	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2137	MS
Iron	0.07	mg/L		0.03	EPA 200.7	09/24/2012 1810	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2137	MS
Manganese	0.01	mg/L		0.01	EPA 200.7	09/24/2012 1810	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1223	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2137	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1810	DG
[redacted]nium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2137	MS
[redacted]ium	0.0083	mg/L		0.0003	EPA 200.8	09/21/2012 2137	MS
Uranium Activity	5.6	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2137	MS
Zinc	0.30	mg/L		0.01	EPA 200.7	09/24/2012 1810	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	09/28/2012 2348	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.6	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/09/2012 838	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/09/2012 838	MB
Thorium 229 Tracer (30-120)	86.2	%		0.2	ACW10	10/09/2012 838	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 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

[redacted]viewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-017
ClientSample ID: Well 809
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1806	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1806	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 1205	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/13/2012 1205	MB
Thorium 229 Tracer (30-120)	68.7	%		0.2	ACW10	10/13/2012 1205	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-038
Client Sample ID: 809

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/29/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0079	mg/L		0.0003		E200.8	12/20/12 20:00 / cp
Uranium, Activity	5.4E-09	uCi/mL		2.0E-10		E200.8	12/20/12 20:00 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:38 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:38 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/28/12 06:11 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/28/12 06:11 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/28/12 06:11 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 11:57 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 11:57 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 11:57 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/13/12 21:05 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/13/12 21:05 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/13/12 21:05 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 13:10 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 13:10 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 13:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/26/12 02:03 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/26/12 02:03 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/26/12 02:03 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/18/12 16:02 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/18/12 16:02 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	12/18/12 16:02 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 15:08 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/18/12 15:08 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 15:08 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-006
ClientSample ID: Well 809
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 12:00:00 PM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0072	mg/L		0.0003	EPA 200.8	03/21/2013 1404	MS
Uranium Activity	4.9	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/22/2013 1922	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	1.1	pCi/L		1	OTW01	04/05/2013 907	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/05/2013 907	SH
Polonium 210	ND	pCi/L		1	OTW01	04/04/2013 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/04/2013 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 819	MB
horium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 819	MB
Thorium 229 Tracer (30-120)	72.8	pCi/L			ACW10	04/02/2013 819	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 805	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 805	MB
Thorium 229 Tracer (30-120)	60.7	pCi/L			ACW10	04/03/2013 805	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-015
Client Sample ID: Well #810

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0064	mg/L		0.0003		E200.8	07/09/12 19:52 / cp
Uranium, Activity	4.4E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:52 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:24 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:24 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 22:30 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 22:30 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 22:30 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	07/23/12 08:12 / plj
Polonium 210 precision (±)	0.6	pCi/L				E912.0	07/23/12 08:12 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	07/23/12 08:12 / plj
Radium 226	1.1	pCi/L		0.17		E903.0	07/18/12 00:01 / gb
Radium 226 precision (±)	0.23	pCi/L				E903.0	07/18/12 00:01 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/18/12 00:01 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	08/01/12 09:35 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 09:35 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	08/01/12 09:35 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/23/12 14:46 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/23/12 14:46 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	07/23/12 14:46 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	07/17/12 15:18 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/17/12 15:18 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	07/17/12 15:18 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 12:49 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	07/18/12 12:49 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 12:49 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-019
ClientSample ID: Well 810
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	171	mg/L		5	SM 2320B	09/23/2012 223	KV
Alkalinity, Bicarbonate as HCO3	201	mg/L		5	SM 2320B	09/23/2012 223	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 223	KV
Chloride	4	mg/L		1	EPA 300.0	09/25/2012 108	AM
Fluoride	0.9	mg/L		0.1	SM 4500FC	09/23/2012 223	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	09/25/2012 1304	RH
Sulfate	6	mg/L		1	EPA 300.0	09/25/2012 108	AM
Calcium	37	mg/L		1	EPA 200.7	09/24/2012 1814	DG
Magnesium	9	mg/L		1	EPA 200.7	09/24/2012 1814	DG
Potassium	5	mg/L		1	EPA 200.7	09/24/2012 1814	DG
Sodium	18	mg/L		1	EPA 200.7	09/24/2012 1814	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1429	RH
Silica as SiO2	63	mg/L		1	EPA 200.7	09/24/2012 1814	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 223	KV
Electrical Conductivity	314	µmhos/cm		1	SM 2510B	09/23/2012 223	KV
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	09/21/2012 1634	JCG
Data Quality							
Cation Sum	3.48	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.76	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.92	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-019
ClientSample ID: Well 810
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1814	DG
Arsenic	0.008	mg/L		0.001	EPA 200.8	09/21/2012 2147	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2147	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1814	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2147	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1814	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2147	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1814	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2147	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1814	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1227	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2147	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1814	DG
[redacted]nium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2147	MS
[redacted]ium	0.0053	mg/L		0.0003	EPA 200.8	09/21/2012 2147	MS
Uranium Activity	3.6	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2147	MS
Zinc	0.18	mg/L		0.01	EPA 200.7	09/24/2012 1814	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2358	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/09/2012 838	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	10/09/2012 838	MB
Thorium 229 Tracer (30-120)	84.1	%		0.2	ACW10	10/09/2012 838	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

[redacted]viewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-019
ClientSample ID: Well 810
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/19/2012 1805	SH
Polonium 210	2.1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1806	SH
Radium 226 (Suspended) Precision (±)	0.03	pCi/L			SM 7500 Ra-B	10/12/2012 1806	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 1205	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	10/13/2012 1205	MB
Thorium 229 Tracer (30-120)	75.4	%		0.2	ACW10	10/13/2012 1205	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 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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-039
Client Sample ID: 810

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/29/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0039	mg/L		0.0003		E200.8	12/20/12 20:01 / cp
Uranium, Activity	2.6E-09	uCi/mL		2.0E-10		E200.8	12/20/12 20:01 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:54 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:54 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/28/12 08:26 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/28/12 08:26 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/28/12 08:26 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 11:57 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 11:57 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 11:57 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/13/12 21:05 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/13/12 21:05 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/13/12 21:05 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/13/12 13:10 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 13:10 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/13/12 13:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/26/12 03:38 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/26/12 03:38 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/26/12 03:38 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/18/12 16:02 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/18/12 16:02 / dmf
Polonium 210 MDC	0.5	pCi/L				E912.0	12/18/12 16:02 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/18/12 15:08 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 15:08 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	12/18/12 15:08 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-005
ClientSample ID: Well 810
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 8:10:00 AM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0056	mg/L		0.0003	EPA 200.8	03/21/2013 1359	MS
Uranium Activity	3.8	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/22/2013 1917	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	5.9	pCi/L		1	OTW01	04/05/2013 907	SH
Lead 210 Precision (±)	0.7	pCi/L			OTW01	04/05/2013 907	SH
Polonium 210	4.4	pCi/L		1	OTW01	04/04/2013 1440	SH
Polonium 210 Precision (±)	1.0	pCi/L			OTW01	04/04/2013 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 819	MB
Thorium 229 Tracer (30-120)	69.9	pCi/L			ACW10	04/02/2013 819	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	ND	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 805	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 805	MB
Thorium 229 Tracer (30-120)	69.3	pCi/L			ACW10	04/03/2013 805	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-016
Client Sample ID: Well #811

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0077	mg/L		0.0003		E200.8	07/09/12 19:53 / cp
Uranium, Activity	5.2E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:53 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:25 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:25 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/17/12 00:12 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/17/12 00:12 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/17/12 00:12 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/23/12 08:12 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/23/12 08:12 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/23/12 08:12 / plj
Radium 226	0.95	pCi/L		0.17		E903.0	07/18/12 00:01 / gb
Radium 226 precision (±)	0.22	pCi/L				E903.0	07/18/12 00:01 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/18/12 00:01 / gb
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1	pCi/L	U	1		E909.0	08/01/12 10:23 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	08/01/12 10:23 / eli-cs
Lead 210 MDC	1	pCi/L				E909.0	08/01/12 10:23 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	07/23/12 14:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 14:46 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	07/23/12 14:46 / plj
Radium 226	<0.20	pCi/L	U	0.20		E903.0	07/17/12 15:18 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/17/12 15:18 / trs
Radium 226 MDC	0.20	pCi/L				E903.0	07/17/12 15:18 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 12:49 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/18/12 12:49 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 12:49 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-018
ClientSample ID: Well 811
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	165	mg/L		5	SM 2320B	09/23/2012 211	KV
Alkalinity, Bicarbonate as HCO3	195	mg/L		5	SM 2320B	09/23/2012 211	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 211	KV
Chloride	2	mg/L		1	EPA 300.0	09/25/2012 056	AM
Fluoride	0.7	mg/L		0.1	SM 4500FC	09/23/2012 211	KV
Nitrogen, Nitrate+Nitrite (as N)	0.5	mg/L		0.1	EPA 353.2	09/25/2012 1303	RH
Sulfate	3	mg/L		1	EPA 300.0	09/25/2012 056	AM
Calcium	39	mg/L		1	EPA 200.7	09/24/2012 1812	DG
Magnesium	10	mg/L		1	EPA 200.7	09/24/2012 1812	DG
Potassium	5	mg/L		1	EPA 200.7	09/24/2012 1812	DG
Sodium	8	mg/L		1	EPA 200.7	09/24/2012 1812	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1428	RH
Silica as SiO2	54	mg/L		1	EPA 200.7	09/24/2012 1812	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 211	KV
Electrical Conductivity	289	µmhos/cm		1	SM 2510B	09/23/2012 211	KV
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	09/21/2012 1633	JCG
Data Quality							
Cation Sum	3.20	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.48	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	4.17	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	220	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	10/23/2012 1434	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by another 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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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-018
ClientSample ID: Well 811
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1812	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/21/2012 2142	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2142	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1812	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2142	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1812	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2142	MS
Iron	0.04	mg/L		0.03	EPA 200.7	09/24/2012 1812	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2142	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1812	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1225	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2142	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1812	DG
[redacted]nium	0.001	mg/L		0.001	EPA 200.8	09/21/2012 2142	MS
[redacted]ium	0.0055	mg/L		0.0003	EPA 200.8	09/21/2012 2142	MS
Uranium Activity	3.7	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2142	MS
Zinc	0.29	mg/L		0.01	EPA 200.7	09/24/2012 1812	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2353	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.5	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	<1	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	0.3	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/09/2012 838	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/09/2012 838	MB
Thorium 229 Tracer (30-120)	88.4	%		0.2	ACW10	10/09/2012 838	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 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

[redacted]eviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-018
ClientSample ID: Well 811
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.2	pCi/L	B	1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L	B		OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1806	SH
Radium 226 (Suspended) Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/12/2012 1806	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 1205	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/13/2012 1205	MB
Thorium 229 Tracer (30-120)	91.4	%		0.2	ACW10	10/13/2012 1205	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 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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-040
Client Sample ID: 811

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/29/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0071	mg/L		0.0003		E200.8	12/20/12 20:03 / cp
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	12/20/12 20:03 / cp
METALS - SUSPENDED							
Uranium	0.0004	mg/L		0.0003		E200.8	12/31/12 19:57 / cp
Uranium, Activity	2.5E-10	uCi/mL		2.0E-10		E200.8	12/31/12 19:57 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/28/12 10:42 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/28/12 10:42 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/28/12 10:42 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 11:57 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 11:57 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 11:57 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/13/12 21:05 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/13/12 21:05 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/13/12 21:05 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 13:10 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	12/13/12 13:10 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 13:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/26/12 05:13 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/26/12 05:13 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/26/12 05:13 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/18/12 16:02 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 16:02 / dmf
Polonium 210 MDC	0.6	pCi/L				E912.0	12/18/12 16:02 / dmf
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/18/12 15:08 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	12/18/12 15:08 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	12/18/12 15:08 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 4/19/2013
Report ID: S1303289001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303289-004
ClientSample ID: Well 811
COC: WEB

WorkOrder: S1303289
CollectionDate: 3/18/2013 12:22:00 PM
DateReceived: 3/20/2013 3:05:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0059	mg/L		0.0003	EPA 200.8	03/21/2013 1355	MS
Uranium Activity	4.0	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	03/22/2013 1912	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	04/16/2013 1058	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/05/2013 907	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/05/2013 907	SH
Polonium 210	ND	pCi/L		1	OTW01	04/04/2013 1440	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/04/2013 1440	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/01/2013 1619	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/01/2013 1619	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/02/2013 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/02/2013 819	MB
Thorium 229 Tracer (30-120)	59.1	pCi/L			ACW10	04/02/2013 819	MB
Radionuclides - Suspended							
Lead 210	2.5	pCi/L		1	OTW01	04/05/2013 1922	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	04/05/2013 1922	SH
Polonium 210	1.5	pCi/L		1	OTW01	04/05/2013 1611	SH
Polonium 210 Precision (±)	1.0	pCi/L			OTW01	04/05/2013 1611	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1151	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1151	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/03/2013 805	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/03/2013 805	MB
Thorium 229 Tracer (30-120)	80.7	pCi/L			ACW10	04/03/2013 805	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-007
Client Sample ID: Well #815

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0058	mg/L		0.0003		E200.8	07/09/12 19:26 / cp
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:26 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 20:59 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 20:59 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 08:54 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 08:54 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 08:54 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.7	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/17/12 22:23 / gb
Radium 226 precision (±)	0.09	pCi/L				E903.0	07/17/12 22:23 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/17/12 22:23 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 03:15 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 03:15 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 03:15 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-014
ClientSample ID: Well 815
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	168	mg/L		5	SM 2320B	09/23/2012 110	KV
Alkalinity, Bicarbonate as HCO3	198	mg/L		5	SM 2320B	09/23/2012 110	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 110	KV
Chloride	4	mg/L		1	EPA 300.0	09/24/2012 2305	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/23/2012 110	KV
Nitrogen, Nitrate+Nitrite (as N)	5.5	mg/L		0.1	EPA 353.2	09/24/2012 1640	RH
Sulfate	7	mg/L		1	EPA 300.0	09/24/2012 2305	AM
Calcium	45	mg/L		1	EPA 200.7	09/24/2012 1751	DG
Magnesium	8	mg/L		1	EPA 200.7	09/24/2012 1751	DG
Potassium	3	mg/L		1	EPA 200.7	09/24/2012 1751	DG
Sodium	16	mg/L		1	EPA 200.7	09/24/2012 1751	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1424	RH
Silica as SiO2	58	mg/L		1	EPA 200.7	09/24/2012 1751	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 110	KV
Electrical Conductivity	335	µmhos/cm		1	SM 2510B	09/23/2012 110	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	09/21/2012 1628	JCG
Data Quality							
Cation Sum	3.65	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	4.02	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	4.87	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-014
ClientSample ID: Well 815
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1751	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	09/21/2012 2122	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/21/2012 2122	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1751	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2122	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1751	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2122	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1751	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2122	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1751	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1217	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2122	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1751	DG
[redacted]enium	0.001	mg/L		0.001	EPA 200.8	09/21/2012 2122	MS
[redacted]nium	0.0046	mg/L		0.0003	EPA 200.8	09/21/2012 2122	MS
Uranium Activity	3.1	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2122	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	09/24/2012 1751	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2333	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	2.3	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	2.9	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/09/2012 838	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/09/2012 838	MB
Thorium 229 Tracer (30-120)	82.2	%		0.2	ACW10	10/09/2012 838	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 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

[redacted]viewed by:

Wade Nieuwsma, Assistant Laboratory Manager

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-014
ClientSample ID: Well 815
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1806	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1806	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 1205	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/13/2012 1205	MB
Thorium 229 Tracer (30-120)	80.2	%		0.2	ACW10	10/13/2012 1205	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-032
Client Sample ID: 815

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0055	mg/L		0.0003		E200.8	12/20/12 19:43 / cp
Uranium, Activity	3.7E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:43 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:19 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:19 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 16:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 16:40 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 16:40 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.8	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/25/12 16:33 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 16:33 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 16:33 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 13:11 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 13:11 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 13:11 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-016
ClientSample ID: Well 815
COC:

WorkOrder: S1303324
CollectionDate: 3/21/2013 9:35:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0052	mg/L		0.0003	EPA 200.8	03/22/2013 1433	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2007	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	0.4	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1647	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1647	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 1309	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 1309	MB
Thorium 229 Tracer (30-120)	28.7	%			ACW10	04/04/2013 1309	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	85.6	%			ACW10	04/12/2013 1217	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12061082-008
Client Sample ID: Well #821

Report Date: 08/14/12
Collection Date: 06/21/12
DateReceived: 06/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0057	mg/L		0.0003		E200.8	07/09/12 19:33 / cp
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	07/09/12 19:33 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 21:01 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 21:01 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/16/12 10:36 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/16/12 10:36 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/16/12 10:36 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	07/17/12 12:18 / plj
Polonium 210 precision (±)	0.9	pCi/L				E912.0	07/17/12 12:18 / plj
Polonium 210 MDC	1	pCi/L				E912.0	07/17/12 12:18 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/17/12 22:23 / gb
Radium 226 precision (±)	0.08	pCi/L				E903.0	07/17/12 22:23 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/17/12 22:23 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/11/12 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/11/12 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/11/12 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	08/01/12 04:02 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	08/01/12 04:02 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	08/01/12 04:02 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	07/23/12 12:46 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/23/12 12:46 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	07/23/12 12:46 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/17/12 13:37 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/17/12 13:37 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/17/12 13:37 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	07/18/12 08:33 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E908.0	07/18/12 08:33 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	07/18/12 08:33 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-013
ClientSample ID: Well 821
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	149	mg/L		5	SM 2320B	09/23/2012 058	KV
Alkalinity, Bicarbonate as HCO3	175	mg/L		5	SM 2320B	09/23/2012 058	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/23/2012 058	KV
Chloride	4	mg/L		1	EPA 300.0	09/24/2012 2252	AM
Fluoride	0.5	mg/L		0.1	SM 4500FC	09/23/2012 058	KV
Nitrogen, Nitrate+Nitrite (as N)	2.4	mg/L		0.1	EPA 353.2	09/24/2012 1639	RH
Sulfate	17	mg/L		1	EPA 300.0	09/24/2012 2252	AM
Calcium	29	mg/L		1	EPA 200.7	09/24/2012 1746	DG
Magnesium	6	mg/L		1	EPA 200.7	09/24/2012 1746	DG
Potassium	6	mg/L		1	EPA 200.7	09/24/2012 1746	DG
Sodium	30	mg/L		1	EPA 200.7	09/24/2012 1746	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1423	RH
Silica as SiO2	62	mg/L		1	EPA 200.7	09/24/2012 1746	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/23/2012 058	KV
Electrical Conductivity	321	µmhos/cm		1	SM 2510B	09/23/2012 058	KV
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	10/08/2012 1430	JCG
Data Quality							
Cation Sum	3.42	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.64	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.10	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	10/23/2012 1434	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-013
ClientSample ID: Well 821
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1746	DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	09/21/2012 2117	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2117	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1746	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 2117	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1746	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2117	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1746	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 2117	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1746	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1210	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 2117	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1746	DG
[redacted]nium	0.002	mg/L		0.001	EPA 200.8	09/21/2012 2117	MS
[redacted]ium	0.0053	mg/L		0.0003	EPA 200.8	09/21/2012 2117	MS
Uranium Activity	3.6	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 2117	MS
Zinc	0.06	mg/L		0.01	EPA 200.7	09/24/2012 1746	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2314	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	1.4	pCi/L		1	OTW01	10/15/2012 1702	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/15/2012 1702	SH
Polonium 210	1.0	pCi/L		1	OTW01	10/22/2012 1913	SH
Polonium 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	10/22/2012 1913	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/10/2012 1452	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/10/2012 1452	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/08/2012 928	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/08/2012 928	MB
Thorium 229 Tracer (30-120)	75.4	%		0.2	ACW10	10/08/2012 928	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 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

[redacted]viewed by:

Wade Nieuwsma, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-013
ClientSample ID: Well 821
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	10/19/2012 1805	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	10/19/2012 1805	SH
Polonium 210	<1	pCi/L		1	OTW01	10/18/2012 1347	SH
Polonium 210 (Suspended) Precision (±)	± 0.03	pCi/L			OTW01	10/18/2012 1347	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/13/2012 756	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/13/2012 756	MB
Thorium 229 Tracer (30-120)	69.6	%		0.2	ACW10	10/13/2012 756	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 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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-033
Client Sample ID: 821

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/28/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0060	mg/L		0.0003		E200.8	12/20/12 19:45 / cp
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	12/20/12 19:45 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/31/12 19:22 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/31/12 19:22 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/27/12 18:55 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/27/12 18:55 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/27/12 18:55 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/31/12 09:43 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 09:43 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/31/12 09:43 / plj
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/13/12 19:04 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/13/12 19:04 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/13/12 19:04 / trs
Thorium 230	<0.08	pCi/L	U	0.08		E908.0	12/13/12 09:01 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/13/12 09:01 / dmf
Thorium 230 MDC	0.08	pCi/L				E908.0	12/13/12 09:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	12/25/12 18:08 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/25/12 18:08 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	12/25/12 18:08 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/18/12 14:22 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/18/12 14:22 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	12/18/12 14:22 / dmf
Radium 226	<0.12	pCi/L	U	0.12		E903.0	12/18/12 13:11 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/18/12 13:11 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	12/18/12 13:11 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/10/12 09:22 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/10/12 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/10/12 09:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303324001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303324-017
ClientSample ID: Well 821
COC:

WorkOrder: S1303324
CollectionDate: 3/19/2013 9:52:00 AM
DateReceived: 3/21/2013 2:40:00 PM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0057	mg/L		0.0003	EPA 200.8	03/22/2013 1438	MS
Uranium Activity	3.9	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2012	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1518	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/07/2013 1848	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/07/2013 1848	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 929	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 929	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/02/2013 1647	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/02/2013 1647	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/04/2013 1309	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/04/2013 1309	MB
Thorium 229 Tracer (30-120)	31.2	%			ACW10	04/04/2013 1309	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1325	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1325	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/12/2013 1217	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/12/2013 1217	MB
Thorium 229 Tracer (30-120)	91.5	%			ACW10	04/12/2013 1217	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-022
Client Sample ID: Well #836

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0048	mg/L		0.0003		E200.8	06/29/12 17:58 / cp
Uranium, Activity	3.2E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:58 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:21 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:21 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/12/12 11:24 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/12/12 11:24 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/12/12 11:24 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	07/05/12 14:51 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	07/05/12 14:51 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 14:51 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	07/04/12 06:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	07/04/12 06:28 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	07/04/12 06:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 10:36 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 10:36 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 10:36 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-011
ClientSample ID: Well 836
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0068	mg/L		0.0003	EPA 200.8	09/21/2012 056	MS
Uranium Activity	4.6	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1513	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.2	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	77.3	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	0.5	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	79.7	%		0.2	ACW10	10/17/2012 844	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

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-009
Client Sample ID: 836

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0066	mg/L		0.0003		E200.8	12/20/12 18:11 / cp
Uranium, Activity	4.5E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:11 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 20:59 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 20:59 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 09:50 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 09:50 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 09:50 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.6	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/12/12 14:33 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/12/12 14:33 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/12/12 14:33 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 12:59 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 12:59 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 12:59 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303348001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303348-005
ClientSample ID: Well 836
COC: Web

WorkOrder: S1303348
CollectionDate: 3/20/2013 7:50:00 AM
DateReceived: 3/22/2013 2:50:00 PM
FieldSampler: RP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0068	mg/L		0.0003	EPA 200.8	03/23/2013 130	MS
Uranium Activity	4.6	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2219	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1453	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1453	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1110	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1110	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/05/2013 1443	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/05/2013 1443	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/05/2013 1244	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/05/2013 1244	MB
Thorium 229 Tracer (30-120)	65.4	%			ACW10	04/05/2013 1244	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1541	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1541	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 801	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 801	MB
Thorium 229 Tracer (30-120)	54.3	%			ACW10	04/08/2013 801	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-021
Client Sample ID: Well #841

Report Date: 07/31/12
Collection Date: 06/19/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0038	mg/L		0.0003		E200.8	06/29/12 17:56 / cp
Uranium, Activity	2.6E-09	uCi/mL		2.0E-10		E200.8	06/29/12 17:56 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:19 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:19 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	07/12/12 08:02 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/12/12 08:02 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	07/12/12 08:02 / eli-cs
Polonium 210	2.8	pCi/L		0.6		E912.0	07/05/12 14:51 / plj
Polonium 210 precision (±)	1.2	pCi/L				E912.0	07/05/12 14:51 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	07/05/12 14:51 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/03/12 21:30 / gb
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/03/12 21:30 / gb
Radium 226 MDC	0.17	pCi/L				E903.0	07/03/12 21:30 / gb
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/19/12 15:30 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/19/12 15:30 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/19/12 15:30 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 09:49 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 09:49 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 09:49 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	07/19/12 08:45 / dmf
Polonium 210 precision (±)	0.1	pCi/L				E912.0	07/19/12 08:45 / dmf
Polonium 210 MDC	0.2	pCi/L				E912.0	07/19/12 08:45 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 17:31 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	07/16/12 17:31 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 17:31 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

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Sample Analysis Report

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

Date Reported 10/24/2012
Report ID: S1209356001

ProjectName: Marshland Private Wells 3rd Qtr 2012
Lab ID: S1209356-010
ClientSample ID: Well 841
COC:

WorkOrder: S1209356
CollectionDate: 9/17/2012
DateReceived: 9/20/2012 10:30:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0053	mg/L		0.0003	EPA 200.8	09/21/2012 051	MS
Uranium Activity	3.6	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	09/28/2012 1509	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/04/2012 1635	WN
Radionuclides - Dissolved							
Lead 210	1.6	pCi/L		1	OTW01	10/10/2012 1633	SH
Lead 210 Precision (±)	0.6	pCi/L			OTW01	10/10/2012 1633	SH
Polonium 210	ND	pCi/L		1	OTW01	10/10/2012 1206	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/10/2012 1206	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1557	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1557	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/12/2012 814	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/12/2012 814	MB
Thorium 229 Tracer (30-120)	90.0	%		0.2	ACW10	10/12/2012 814	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	10/12/2012 1729	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 1729	SH
Polonium 210	ND	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/11/2012 1159	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/11/2012 1159	SH
Thorium 230	ND	pCi/L		0.2	ACW10	10/17/2012 844	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/17/2012 844	MB
Thorium 229 Tracer (30-120)	93.1	%		0.2	ACW10	10/17/2012 844	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

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-010
Client Sample ID: 841

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0055	mg/L		0.0003		E200.8	12/20/12 18:12 / cp
Uranium, Activity	3.7E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:12 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 21:00 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 21:00 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	12/20/12 12:05 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	12/20/12 12:05 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	12/20/12 12:05 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.15	pCi/L	U	0.15		E903.0	12/12/12 14:33 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/12/12 14:33 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	12/12/12 14:33 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 14:41 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 14:41 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 14:41 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.10	pCi/L	U	0.10		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 4/26/2013
Report ID: S1303348001

ProjectName: Marsland Private Wells 1st Qtr. 2013
Lab ID: S1303348-006
ClientSample ID: Well 841
COC: Web

WorkOrder: S1303348
CollectionDate: 3/20/2013 8:15:00 AM
DateReceived: 3/22/2013 2:50:00 PM
FieldSampler: RP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0053	mg/L		0.0003	EPA 200.8	03/23/2013 135	MS
Uranium Activity	3.6	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	03/28/2013 2224	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/24/2013 1519	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/08/2013 1453	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1453	SH
Polonium 210	ND	pCi/L		1	OTW01	04/08/2013 1110	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/08/2013 1110	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/05/2013 1443	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/05/2013 1443	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/05/2013 1244	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/05/2013 1244	MB
Thorium 229 Tracer (30-120)	59.7	%			ACW10	04/05/2013 1244	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/15/2013 1706	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1706	SH
Polonium 210	ND	pCi/L		1	OTW01	04/15/2013 1238	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/15/2013 1238	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/08/2013 1541	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/08/2013 1541	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/08/2013 801	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/08/2013 801	MB
Thorium 229 Tracer (30-120)	64.2	%			ACW10	04/08/2013 801	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

*	Value exceeds Maximum Contaminant Level	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
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery limits		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples June 2012
Lab ID: C12060907-029
Client Sample ID: Well #845

Report Date: 07/31/12
Collection Date: 06/20/12
DateReceived: 06/21/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0039	mg/L		0.0003		E200.8	06/29/12 18:17 / cp
Uranium, Activity	2.6E-09	uCi/mL		2.0E-10		E200.8	06/29/12 18:17 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	07/09/12 18:44 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	07/09/12 18:44 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<1	pCi/L	U	1		E909.0	07/13/12 10:52 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	07/13/12 10:52 / eli-cs
Lead 210 MDC	1	pCi/L				E909.0	07/13/12 10:52 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	07/05/12 14:52 / dmf
Polonium 210 precision (±)	0.3	pCi/L				E912.0	07/05/12 14:52 / dmf
Polonium 210 MDC	0.7	pCi/L				E912.0	07/05/12 14:52 / dmf
Radium 226	<0.17	pCi/L	U	0.17		E903.0	07/04/12 08:28 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	07/04/12 08:28 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	07/04/12 08:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	07/20/12 08:28 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/20/12 08:28 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	07/20/12 08:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	07/29/12 16:09 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	07/29/12 16:09 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	07/29/12 16:09 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	07/19/12 10:54 / dmf
Polonium 210 precision (±)	0.2	pCi/L				E912.0	07/19/12 10:54 / dmf
Polonium 210 MDC	0.3	pCi/L				E912.0	07/19/12 10:54 / dmf
Radium 226	<0.13	pCi/L	U	0.13		E903.0	07/16/12 22:06 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	07/16/12 22:06 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	07/16/12 22:06 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	07/18/12 08:31 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	07/18/12 08:31 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	07/18/12 08:31 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-001
ClientSample ID: Well 845
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	158	mg/L		5	SM 2320B	09/22/2012 000	KV
Alkalinity, Bicarbonate as HCO3	187	mg/L		5	SM 2320B	09/22/2012 000	KV
Alkalinity, Carbonate as CO3	<5	mg/L		5	SM 2320B	09/22/2012 000	KV
Chloride	2	mg/L		1	EPA 300.0	09/24/2012 1935	AM
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/22/2012 000	KV
Nitrogen, Nitrate+Nitrite (as N)	1.4	mg/L		0.1	EPA 353.2	09/24/2012 1619	RH
Sulfate	7	mg/L		1	EPA 300.0	09/24/2012 1935	AM
Calcium	35	mg/L		1	EPA 200.7	09/24/2012 1704	DG
Magnesium	7	mg/L		1	EPA 200.7	09/24/2012 1704	DG
Potassium	4	mg/L		1	EPA 200.7	09/24/2012 1704	DG
Sodium	18	mg/L		1	EPA 200.7	09/24/2012 1704	DG
Nitrogen, Ammonia (As N)	<0.1	mg/L		0.1	EPA 350.1	09/25/2012 1529	RH
Silica as SiO2	60	mg/L		1	EPA 200.7	09/24/2012 1704	DG
General Parameters							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2012 000	KV
Electrical Conductivity	302	µmhos/cm		1	SM 2510B	09/22/2012 000	KV
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	09/21/2012 1614	JCG
Data Quality							
Cation Sum	3.23	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Anion Sum	3.47	meq/L		0.01	SM 1030E	10/10/2012 1149	LJK
Cation-Anion Balance (± 5%)	3.57	%		0.01	SM 1030E	10/10/2012 1149	LJK
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	10/10/2012 1149	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.09	dec. %		0.01	Calculation	10/23/2012 1434	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 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

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-001
ClientSample ID: Well 845
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1704	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	09/21/2012 1929	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/21/2012 1929	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/24/2012 1704	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/21/2012 1929	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1704	DG
Copper	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1929	MS
Iron	<0.03	mg/L		0.03	EPA 200.7	09/24/2012 1704	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1929	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1704	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/25/2012 1131	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/21/2012 1929	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/24/2012 1704	DG
[redacted]lenium	<0.001	mg/L		0.001	EPA 200.8	09/21/2012 1929	MS
[redacted]anium	0.0064	mg/L		0.0003	EPA 200.8	09/21/2012 1929	MS
Uranium Activity	4.3	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Vanadium	<0.02	mg/L		0.02	EPA 200.8	09/21/2012 1929	MS
Zinc	<0.01	mg/L		0.01	EPA 200.7	09/24/2012 1704	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	09/28/2012 2139	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/23/2012 1434	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	10/08/2012 1038	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/08/2012 1038	SH
Polonium 210	<1	pCi/L		1	OTW01	10/04/2012 1702	SH
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	10/04/2012 1702	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1334	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1334	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/05/2012 1225	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/05/2012 1225	MB
Thorium 229 Tracer (30-120)	73.2	%		0.2	ACW10	10/05/2012 1225	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 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

[redacted]eviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Sample Analysis Report

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

Date Reported 10/24/2012
Report ID S1209376001

ProjectName: Marsland Private Wells 3rd Qtr 2012
Lab ID: S1209376-001
ClientSample ID: Well 845
COC:

WorkOrder: S1209376
CollectionDate: 9/18/2012
DateReceived: 9/21/2012 11:15:00 AM
FieldSampler: BB
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	10/12/2012 1933	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	10/12/2012 1933	SH
Polonium 210	<1	pCi/L		1	OTW01	10/12/2012 000	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	10/12/2012 000	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/12/2012 1557	SH
Radium 226 (Suspended) Precision (±)	0.04	pCi/L			SM 7500 Ra-B	10/12/2012 1557	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/12/2012 1314	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	10/12/2012 1314	MB
Thorium 229 Tracer (30-120)	76.8	%		0.2	ACW10	10/12/2012 1314	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

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

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Private Well Samples November 2012
Lab ID: C12111077-011
Client Sample ID: 845

Revised Date: 11/10/14
Report Date: 01/04/13
Collection Date: 11/26/12
DateReceived: 11/30/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0056	mg/L		0.0003		E200.8	12/20/12 18:14 / cp
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	12/20/12 18:14 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/20/12 21:09 / cp
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/20/12 21:09 / cp
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	12/20/12 14:20 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	12/20/12 14:20 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	12/20/12 14:20 / eli-cs
Polonium 210	<1	pCi/L	U	1		E912.0	12/31/12 14:13 / dmf
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/31/12 14:13 / dmf
Polonium 210 MDC	1	pCi/L				E912.0	12/31/12 14:13 / dmf
Radium 226	<0.18	pCi/L	U	0.18		E903.0	12/12/12 14:33 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/12/12 14:33 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	12/12/12 14:33 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	12/13/12 08:58 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/13/12 08:58 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	12/13/12 08:58 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0	12/25/12 16:23 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	12/25/12 16:23 / eli-cs
Lead 210 MDC	0.5	pCi/L				E909.0	12/25/12 16:23 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/17/12 10:40 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/17/12 10:40 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/17/12 10:40 / plj
Radium 226	<0.11	pCi/L	U	0.11		E903.0	12/20/12 15:50 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	12/20/12 15:50 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	12/20/12 15:50 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	12/12/12 10:06 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	12/12/12 10:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	12/12/12 10:06 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

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

Date Reported 4/29/2013
Report ID: S1303398001

ProjectName: Marsland Private Wells 1st Qtr 2013
Lab ID: S1303398-006
ClientSample ID: Well 845
COC:

WorkOrder: S1303398
CollectionDate: 3/21/2013 8:45:00 AM
DateReceived: 3/26/2013 2:15:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Uranium	0.0056	mg/L		0.0003	EPA 200.8	03/26/2013 2350	MS
Uranium Activity	3.8	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/04/2013 1410	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	04/29/2013 1054	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	04/22/2013 1237	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/22/2013 1237	SH
Polonium 210	ND	pCi/L		1	OTW01	04/22/2013 939	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/22/2013 939	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/10/2013 000	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/10/2013 000	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/16/2013 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/16/2013 1713	MB
Thorium 229 Tracer (30-120)	33	%			ACW10	04/16/2013 1713	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/26/2013 926	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	04/26/2013 926	SH
Polonium 210	ND	pCi/L		1	OTW01	04/24/2013 1615	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	04/24/2013 1615	SH
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/15/2013 1805	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/15/2013 1805	SH
Thorium 230	ND	pCi/L		0.2	ACW10	04/25/2013 1318	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/25/2013 1318	MB
Thorium 229 Tracer (30-120)	32	%			ACW10	04/25/2013 1318	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