



CAMECO RESOURCES
 Smith Ranch-Highland
 Operation
 Mail:
 P.O. Box 1210
 Glenrock, WY
 82637 USA

January 5, 2012

Mr. Lowell Spackman, District 1 Supervisor
 Wyoming Department of Environmental Quality
 Land Quality Division
 Herschler Building, 3 Fl-West
 122 West 25th Street
 Cheyenne, WY 82002

Tel: (307) 358-6541
 Fax: (307) 358-4533
 www.cameco.com

CERTIFIED MAIL # 7009 2820 0001 4046 2751 RETURN RECEIPT REQUESTED

RE: K-North Release Soil Sample Results, Permit 633, Cameco Resources

Dear Mr. Spackman:

Power Resources, Inc d/b/a Cameco Resources (Cameco) is submitting soil sample results for the release that occurred on March 10, 2011 in the K-North Wellfield due to failure of the ModuTank used for pump testing. The results show that the background sampling results are the same or higher than the results for samples taken in the spill area. As discussed with the Wyoming Department of Environmental Quality/Land Quality Division (LQD) during the November 2011 Site Inspection, November 9 and 10, 2011, Cameco proposes that remediation not be required. Cameco will maintain the spill area in the site base maps and to be reviewed at decommissioning. The table below summarized the results found in the attached Analytical Report from Energy Laboratories.

	Samples 0" to 2" Depth				Samples 2" to 6" Depth			
	#1	#2	#3	Background	#1	#2	#3	Background
Moisture	1.3	2.2	7.6	2.9	2.4	3.7	7.7	4.8
Selenium	0.04	0.18	0.06	0.05	0.05	0.06	0.06	0.06
Arsenic	4.4	5	4.7	5.9	4	4.9	4.9	6.1
Uranium	1.4	1.7	1.8	3.9	1.7	1.9	1.8	3
Radium 226	0.9	1	1.3	1.2	0.8	1	1.3	1.2
Radium 226 precision (±)	0.08	0.09	0.1	0.1	0.08	0.09	0.1	0.08
Radium 226 MDC	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02

FSME20
 FSME

Please contact me at (307) 358-6541, ext 476 or at Kenneth_Garoutte@cameco.com if you have any questions.

Respectfully,



Ken Garoutte
Safety, Health, Environment and Quality (SHEQ) Manager

KG/vg

Attachments: Analytical Report – K-North Release

cc: File SR 4.3.3.1
Special Volume: Wellfield Release Reports
Mr. Doug Mandeville, NRC (2copies) - CERTIFIED MAIL # 7009 2820 0001 4046 2294
Document Control Desk, NRC - CERTIFIED MAIL # 7009 2820 0001 4046 2300

cc: Cameco Resources-Cheyenne



ANALYTICAL SUMMARY REPORT

November 04, 2011

Power Resources dba Cameco Resources
762 Ross Rd (Douglas, WY 82633)
Glenrock, WY 82637

Workorder No.: C11091140

Project Name: K-North Release

Energy Laboratories, Inc. Casper WY received the following 8 samples for Power Resources dba Cameco Resources on 9/28/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11091140-001	#1 [0-2]	09/28/11 0:00	09/28/11	Soil	Metals by ICP/ICPMS, Total ABDPTA extractable metals Percent Moisture Digestion, Total Metals Digestion For RadioChemistry ABDTPA Soil Extraction Radium 226
C11091140-002	#1 [2-6]	09/28/11 0:00	09/28/11	Soil	Same As Above
C11091140-003	#2 [0-2]	09/28/11 0:00	09/28/11	Soil	Same As Above
C11091140-004	#2 [2-6]	09/28/11 0:00	09/28/11	Soil	Same As Above
C11091140-005	#3 [0-2]	09/28/11 0:00	09/28/11	Soil	Same As Above
C11091140-006	#3 [2-6]	09/28/11 0:00	09/28/11	Soil	Same As Above
C11091140-007	Bkgnd [0-2]	09/28/11 0:00	09/28/11	Soil	Same As Above
C11091140-008	Bkgnd [2-6]	09/28/11 0:00	09/28/11	Soil	Same As Above

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. All samples are reported on an as received basis unless otherwise indicated.

If you have any questions regarding these test results, please call.

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-001
Client Sample ID: #1 [0-2]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	1.3	%		0.1		D2974	09/30/11 15:32 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.04	mg/kg-dry	D	0.01		SW6020	10/13/11 08:51 / sml
METALS - TOTAL							
Arsenic	4.4	mg/kg-dry		0.5		SW6020	10/05/11 23:44 / sml
Uranium	1.4	mg/kg-dry		0.5		SW6020	10/05/11 23:44 / sml
RADIONUCLIDES - TOTAL							
Radium 226	0.9	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 precision (±)	0.08	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 MDC	0.03	pCi/g-dry				E903.0	10/26/11 14:21 / js

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.
D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-002
Client Sample ID: #1 [2-6]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	2.4	%		0.1		D2974	09/30/11 15:32 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.05	mg/kg-dry	D	0.01		SW6020	10/13/11 09:02 / sml
METALS - TOTAL							
Arsenic	4.0	mg/kg-dry		0.5		SW6020	10/13/11 12:02 / sml
Uranium	1.7	mg/kg-dry		0.5		SW6020	10/13/11 12:02 / sml
RADIONUCLIDES - TOTAL							
Radium 226	0.8	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 precision (±)	0.08	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 MDC	0.03	pCi/g-dry				E903.0	10/26/11 14:21 / js

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.
D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-003
Client Sample ID: #2 [0-2]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	2.2	%		0.1		D2974	09/30/11 15:32 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.18	mg/kg-dry	D	0.01		SW6020	10/13/11 09:34 / sml
METALS - TOTAL							
Arsenic	5.0	mg/kg-dry		0.5		SW6020	10/07/11 18:47 / sml
Uranium	1.7	mg/kg-dry		0.5		SW6020	10/07/11 18:47 / sml
RADIONUCLIDES - TOTAL							
Radium 226	1.0	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 precision (±)	0.09	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 MDC	0.03	pCi/g-dry				E903.0	10/26/11 14:21 / js

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.
D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-004
Client Sample ID: #2 [2-6]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	3.7	%		0.1		D2974	09/30/11 15:32 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	10/13/11 10:38 / sml
METALS - TOTAL							
Arsenic	4.9	mg/kg-dry		0.5		SW6020	10/07/11 18:53 / sml
Uranium	1.9	mg/kg-dry		0.5		SW6020	10/07/11 18:53 / sml
RADIONUCLIDES - TOTAL							
Radium 226	1.0	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 precision (±)	0.09	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 MDC	0.03	pCi/g-dry				E903.0	10/26/11 14:21 / js

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.
D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-005
Client Sample ID: #3 [0-2]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	7.6	%		0.1		D2974	09/30/11 15:33 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	10/13/11 10:43 / sml
METALS - TOTAL							
Arsenic	4.7	mg/kg-dry		0.5		SW6020	10/07/11 18:56 / sml
Uranium	1.8	mg/kg-dry		0.5		SW6020	10/07/11 18:56 / sml
RADIONUCLIDES - TOTAL							
Radium 226	1.3	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 precision (±)	0.10	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 MDC	0.03	pCi/g-dry				E903.0	10/26/11 14:21 / js

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.
 D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-006
Client Sample ID: #3 [2-6]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	7.7	%		0.1		D2974	09/30/11 15:33 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	10/13/11 10:48 / sml
METALS - TOTAL							
Arsenic	4.9	mg/kg-dry		0.5		SW6020	10/07/11 18:59 / sml
Uranium	1.8	mg/kg-dry		0.5		SW6020	10/07/11 18:59 / sml
RADIONUCLIDES - TOTAL							
Radium 226	1.3	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 precision (±)	0.10	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 MDC	0.02	pCi/g-dry				E903.0	10/26/11 14:21 / js

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.
D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-007
Client Sample ID: Bkgnd [0-2]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	2.9	%		0.1		D2974	09/30/11 15:33 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.05	mg/kg-dry	D	0.01		SW6020	10/13/11 10:53 / sml
METALS - TOTAL							
Arsenic	5.9	mg/kg-dry		0.5		SW6020	10/07/11 19:15 / sml
Uranium	3.9	mg/kg-dry		0.5		SW6020	10/07/11 19:15 / sml
RADIONUCLIDES - TOTAL							
Radium 226	1.2	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 precision (±)	0.10	pCi/g-dry				E903.0	10/26/11 14:21 / js
Radium 226 MDC	0.03	pCi/g-dry				E903.0	10/26/11 14:21 / js

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.
D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources
Project: K-North Release
Lab ID: C11091140-008
Client Sample ID: Bkgnd [2-6]

Report Date: 11/04/11
Collection Date: 09/28/11
Date Received: 09/28/11
Matrix: Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	4.8	%		0.1		D2974	09/30/11 15:33 / lbb
ABDTPA EXTRACTABLE METALS							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	10/13/11 10:59 / sml
METALS - TOTAL							
Arsenic	6.1	mg/kg-dry		0.5		SW6020	10/07/11 19:18 / sml
Uranium	3.0	mg/kg-dry		0.5		SW6020	10/07/11 19:18 / sml
RADIONUCLIDES - TOTAL							
Radium 226	1.2	pCi/g-dry				E903.0	10/26/11 17:35 / js
Radium 226 precision (±)	0.08	pCi/g-dry				E903.0	10/26/11 17:35 / js
Radium 226 MDC	0.02	pCi/g-dry				E903.0	10/26/11 17:35 / js

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.
 D - RL increased due to sample matrix.