



**CAMECO RESOURCES**  
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August 24, 2012

Mr. Lowell Spackman, District 1 Supervisor  
Land Quality Division  
Wyoming Department of Environmental Quality  
Herschler Building, 3<sup>rd</sup> FL-West  
122 W. 25<sup>th</sup> Street  
Cheyenne, WY 82002

CERTIFIED MAIL # 7011 0470 0001 0202 2368 RETURN RECEIPT REQUESTED

**RE: Excursion at Monitor Well KM-031, Cameco Resources, Permit No. 633**

Dear Mr. Spackman:

In accordance with Wyoming Department of Environmental Quality (WDEQ) – Land Quality Division (LQD) Chapter 11 regulations, Section 12(c)(ii), Section 5.5.4 of the Operations Plan for Permit 633, and NRC License Condition No. 12.1, Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is providing written notification that Monitor Well KM-031 went on excursion status August 17, 2012. Confirmation monitoring results were received on August 20, 2012. Ms. Pam Rothwell from WDEQ-LQD and Mr. Doug Mandeville from the NRC were notified by telephone and email on August 21, 2012.

Analytical results on August 20, 2012 for the routine sample taken on August 17, 2012 indicated a potential exceedance in two of the three parameters (alkalinity and conductivity). Cameco collected a confirmation sample from the monitor well and analyzed it with a quality assurance duplicate on August 20, 2012. Results of this laboratory analyses confirmed the exceedance of Upper Control Limit (UCL) parameters. Shown below are results of samples taken.

Sample Date	Chloride (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Conductivity (µMhos/cm)
	UCL 16	UCL 149	UCL 769
August 17, 2012	7	152	785
August 20, 2012	7	158	777

Monitor Well KM-031 is located in Mine Unit K as illustrated on the attached map. Cameco will investigate potential influence of underground workings near the well, review initial baseline water quality and UCL determinations, and additional sampling inside Mine Unit K to examine how fluid migration from the mine unit may or may not be impacting Well KM-031.

Weekly samples will be collected to monitor the UCL constituents and uranium until the excursion is resolved. The excursion at Monitor Well KM-031 has been added to the monthly Excursion Report Summary and will be identified on the Cameco Resources site map.

Pursuant to WDEQ/LQD Chapter 11, Section 2 a duly authorized representative certification is attached.

Please contact me at (307) 358-6541 ext. 476 or email to [Kenneth\\_Garoutte@cameco.com](mailto:Kenneth_Garoutte@cameco.com) if you have any questions.

Respectfully,



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

KG/kg

Attachment: 1) Duly Authorized Representative Certification  
2) Map

cc: File SR 4.3.3.1  
Doug Mandeville, NRC (2 copies) Certified Mail # 7011 0470 0001 0202 2382  
Document Control Desk, NRC Certified Mail # 7011 0470 0001 0202 2375 ✓

cc: Cameco-Cheyenne

### **Duly Authorized Representative Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

Brent Berg by Dave Morley 8-24-2012  
Duly Authorized Representative: Brent Berg Date: 08-24-12



