



CAMECO RESOURCES
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September 27, 2016

40-8964

CERTIFIED MAIL # 7015 3010 0002 0309 8933

Mr. Mark Rogaczewski, District 3 Supervisor
 Land Quality Division
 Wyoming Department of Environmental Quality
 2100 West 5th Street
 Sheridan, Wyoming 82801

Notification of Excursion at Monitor Well NBM-031, North Butte ISR Project, Cameco Resources, Permit No. 632

Dear Mr. Rogaczewski:

In accordance with Wyoming Department of Environmental Quality – Land Quality Division (WDEQ-LQD) Chapter 11 regulations Section 12, Permit 632 Operation Plan Section 3.3.7.5 Excursions, and Nuclear Regulatory Commission (NRC) License Condition No. 12.1, Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is providing written notification that Monitor Well NBM-031 in Mine Unit 1 of the North Butte ISR Project, went on excursion status September 20, 2016. Confirmation monitoring results were received on September 22, 2016. Verbal notification was made by phone to you on September 23, 2016, as well as to Mr. Doug Mandeville of the NRC. Verbal notification was confirmed by email on the same day.

Analytical results received on September 21, 2016 for the routine sample taken on September 20, 2016 indicated a potential exceedance in two of the three parameters (chloride and alkalinity) at Monitor Well NBM-031. Cameco collected a confirmation sample from the monitor well on September 22, 2016. Results of this laboratory analyses were received the same day and confirmed exceedance of Upper Control Limit (UCL) parameters in both chloride and alkalinity. Shown below are results of samples taken.

Sample Date	Chloride (mg/L)	Alkalinity (mg/L CaCO ₃)	Conductivity (µMhos/cm)
	UCL 19	UCL 93	UCL 2,299
September 20, 2016	27	143	1,627
September 22, 2016	25	130	1,609

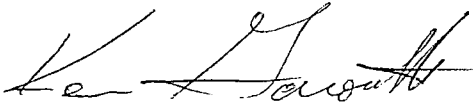
Excursion control pumping was implemented in Header Houses 7, 8 and 9 in an effort to reduce concentrations at NBM-031. Weekly samples will be collected to monitor the UCL constituents and uranium until the excursion is resolved. A monthly excursion status report will be provided

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to LQD until the excursion is controlled. Monitor Well NBM-031 will also be identified on the Cameco Resources site map that is included in the Annual Report.

Pursuant to the 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 if you have any questions.

Respectfully,



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

KG/vg

Attachment: Duly Authorized Representative Certification

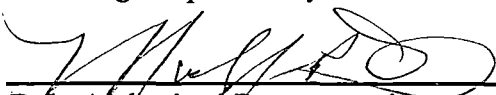
cc: File NB 4.3.3.1
Doug Mandeville, NRC
Document Control Desk, NRC
Certified Mail # 7015 3010 0002 0309 8940
Certified Mail # 7015 3010 0002 0309 8957

ec: Cameco-Casper

xc: LQD Files - 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.



Duly Authorized Representative:
Mike Thomas, SHEQ Director

Date:
September 27, 2016