



40-8964

October 6, 2016

CERTIFIED MAIL # 7015 3010 0002 0309 8995

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

**CAMECO RESOURCES**

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**September 2016 Excursion Report Summary, Cameco Resources, North Butte ISR Project, Permit 632**

Dear Mr. Rogaczewski:

Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is submitting the September 2016 Monthly Excursion Report Summary for the North Butte ISR Project. Monitor Well NBM-031 was confirmed on excursion on September 22, 2016, exceeding the Upper Control Limits (UCL) in both Chloride and Alkalinity. Verbal notification was made to Wyoming Department of Environmental Quality (WDEQ) – Land Quality Division (LQD) on September 23, 2016 with written notification following in a letter dated September 27, 2016.

Attached please find sample results, concentration of UCL parameters and groundwater elevation, for Monitor Well NBM-031 for the report period of September 2016. Concentration in both chloride and alkalinity dropped below the UCL's for the September 27, 2016 sample event. A confirmation sample was collected the following day, September 28, 2016 as an internal check. As discussed with LQD, weekly sampling will continue until three (3) consecutive weekly samples show concentrations below the UCL's. Once this condition has been met, Cameco will provide LQD with a courtesy email stating that the regular sampling schedule has resumed. At this time, Cameco continues to investigate the likely cause of the excursion.

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

Respectfully,

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

KG/vg

NMSS01

Attachments: Monitor Well Reports for NBM-031

cc: File NB 4.3.3.3  
Mr. Doug Mandeville, NRC - CERTIFIED MAIL # 7015 3010 0002 0309 9008  
Document Control Desk, NRC - CERTIFIED MAIL # 7015 3010 0002 0309 9015

cc: Cameco-Casper  
LQD - Cheyenne



***Cameco Resources  
North Butte Operation  
Monitor Well Report***

*Well Name: NBM-031*

<i><b>NRC/WDEQ UCL</b></i>	<i><b>Chloride (mg/L)</b></i>	<i><b>Alkalinity (mg/L CaCO3)</b></i>	<i><b>Conductivity (µMho/cm)</b></i>	<i><b>U3O8 (mg/L)</b></i>	<i><b>Water Elevation</b></i>
	19.0	93	2299		
09/28/2016	7.0	77	1390	0.10	4765.26
09/27/2016	8.0	77	1372	0.10	4763.66
09/22/2016	25.0	130	1609		4772.86
09/20/2016	27.0	143	1627		4795.16
09/07/2016	10.0	74	1424		4779.76