



**CAMECO RESOURCES**  
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January 29, 2010

Mr. Lowell Spackman, District I Supervisor  
Land Quality Division  
Wyoming Department of Environmental Quality  
122 W. 25<sup>th</sup> Street  
Cheyenne, WY 82002

RE: Highland Uranium Project, Permit to Mine No. 603, Update on  
Monitor Well CM-15 Excursion

Dear Mr. Spackman:

In November 2008, notification was provided to WDEQ/LQD by Power Resources, Inc. d/b/a/ Cameco Resources (CR) that Monitor Well CM-15 was on excursion status and was subsequently reported in Quarterly Reports to the LQD. Weekly sampling of the monitor well indicated parameters trended below UCL values on September 29, 2009. To ensure parameters remained below UCLs, weekly sampling continued until November 17, 2009. A Guideline 8 sample was collected from Monitor Well CM-15 at that time and submitted to Energy Laboratories for analysis, and the monitor well was placed into a 60-day routine sampling schedule.

The Energy Laboratories' analysis report was delayed until January 6, 2010, therefore CR decided to conduct additional sampling for parameter verification and quality control. CR personnel prepared and submitted a split sample of the routine sample collected January 19, 2010. The monitor well split sample was sent to the on-site laboratory and Energy Laboratories for expedited analysis of parameters. Additionally, another Guideline 8 sample was collected and submitted due to the delay of the previous sample.

The on-site laboratory reported the analysis within 24-hours and Energy Laboratories analysis was received January 26, 2010. The table below illustrates the sampling results from both facilities indicating that efforts to keep the well off excursion have been successful.

Laboratory Location	Chloride (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Conductivity (µMhos/cm)
	18 UCL	202 UCL	852 UCL
On-Site Laboratory	11	201	830
Energy Laboratories	10	216	807

If you have questions, please call me at (307) 358-6541, Ext. 474

Sincerely,



Angelo Kallas  
Safety, Health, Environment and Quality Manager

AK/dk

cc: T. Cannon                      J. Brister                      File HUP 4.6.4.1  
D. Mandeville, USNRC (2 copies)