



40-8964

April 12, 2016

CERTIFIED MAIL # 7015 1520 0000 2613 0986

Mr. Robin Jones, District 1 Supervisor  
Land Quality Division  
Wyoming Department of Environmental Quality  
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Cheyenne, Wyoming 82002

**CAMECO RESOURCES**  
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**March 2016 Excursion Report Summary, Cameco Resources, Smith Ranch-Highland Uranium Project, Permit 633**

Dear Mr. Jones:

Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is submitting the March 2016 Monthly Excursion Report Summary for the Smith Ranch-Highland Uranium Project. The Cameco Excursion Report table is attached. Monitor Well DM-003A remained on excursion from the previous report period.

During the report period, concentrations at Monitor Well DM-003A continued to show a decline, however rebounding slightly at the end of the month. The slight rebound is being attributed to inclement weather causing loss of power at the satellite facility and preventing pumping efforts temporarily. Cameco plans to continue with the current pumping regime at recovery well DX-113, as the results demonstrate that a positive impact is being made on the water quality in Monitor Well DM-003A.

As requested in the Notification of Excursion for DM-004A, dated December 8, 2015, and followed up on through discussion with Wyoming Department of Environmental Quality (WDEQ) – Land Quality Division (LQD) during meetings held on December 17, 2015 and January 27, 2016, Cameco awaits a response from LQD on the determination that Monitor Well DM-003A and DM-004A are not typical excursion as defined by statute and do not fit the intended definition of an excursion as outlined in W.S. § 35-11-103(f)(ii). LQD's response may request that Cameco provide a potential plan of mitigation, which would allow Cameco the liberty to make adjustments to pumping efforts knowing that DM-004A may go above the UCL values. This plan would also allow Cameco the ability to sample as necessary to effectively make changes to pumping and cleanup efforts.

NM5501

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

Attachments: Cameco Resources Excursion Report Table  
Monitor Well Reports for DM-003A

cc: File SR 4.3.3.3  
Special Volume: Monthly Excursion Reports Summary Updates Permit 633  
Mr. Doug Mandeville, NRC - CERTIFIED MAIL # 7015 1520 0000 2613 0993  
Document Control Desk, NRC - CERTIFIED MAIL # 7015 1520 0000 2613 1006

ec: Cameco-Casper

**Cameco Resources Excursion Report**  
**Permit No 633**  
**March 2016**

<b>Well Identification</b>	<b>Initial Sample Date</b>	<b>Confirmation Sample Date</b>	<b>Excursion Status (on/off)</b>	<b>Parameters Exceeded</b>	<b>Verbal Notification Date</b>	<b>Written Notification Date</b>	<b>Excursion Resolution Date</b>	<b>LQD Concurrence Notification Date</b>
DM-003A (Replacement well for DM-003)	8/26/2014	N/A	ON	Chloride Alkalinity	Made Previously as DM-003			



**Cameco Resources**  
**Smith Ranch - Highland Operation**  
**Monitor Well Report**

Well ID: DM-003A

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
03/29/2016	27	251	940	0	799.4	
03/22/2016	25	252	924	0	798.3	
03/15/2016	22	254	894	0	800.3	
03/08/2016	25	256	941	0	797.8	
03/01/2016	29	265	934	0	807.7	
02/23/2016	29	264	905	0	807.3	
02/16/2016	30	272	952	0	800.9	
02/09/2016	31	268	945	0	801.8	
02/02/2016	31	269	948	0	801.1	
01/26/2016	31	272	957	0	803.0	
01/19/2016	31	268	962	0	802.9	
01/12/2016	32	273	987	0	806.2	
01/05/2016	33	279	979	0	807.0	
12/29/2015	32	269	1000	0	810.6	
12/22/2015	32	275	968	0	811.3	
12/15/2015	33	279	990	0	814.7	
12/08/2015	34	276	1009	0	819.8	
12/01/2015	35	293	1013	0	825.1	
11/24/2015	34	279	1003	0	824.1	
11/17/2015	34	283	973	0	820.7	
11/10/2015	33	281	986	0	818.9	
11/03/2015	33	278	1004	0	834.4	
10/27/2015	34	282	972	0	833.1	

04/12/2016



**Cameco Resources**  
**Smith Ranch - Highland Operation**  
**Monitor Well Report**

Well ID: DM-003A

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
10/20/2015	37	280	1015	0	833.6	
10/13/2015	35	278	1024	0	832.4	
10/06/2015	34	279	1019	0	834.4	
09/29/2015	33	281	1034	0	834.0	
09/22/2015	28	282	1025	0	836.0	
09/15/2015	35	274	1011	0	840.5	
09/08/2015	34	270	1022	0	840.1	
09/01/2015	35	276	1040	0	837.4	
08/25/2015	35	292	1040	0	835.6	
08/18/2015	35	291	1046	0	833.2	
08/11/2015	35	291	1019	0	830.7	
08/04/2015	35	277	1024	0	831.2	
07/28/2015	34	283	1024	0	834.4	
07/21/2015	37	279	1058	0	834.4	
07/14/2015	36	288	1067	0	835.1	
07/07/2015	39	288	1083	0	838.2	
06/30/2015	40	301	1104	0	844.1	
06/23/2015	40	306	1090	0	845.7	
06/16/2015	39	306	1108	0	844.0	
06/09/2015	41	302	1094	0	841.9	
06/02/2015	41	293	1110	0	840.3	
05/26/2015	42	306	1090	0	837.3	
05/19/2015	34	311	1131	0	836.8	

04/12/2016



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**Smith Ranch - Highland Operation**  
**Monitor Well Report**

*Well ID:* DM-003A

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
05/12/2015	46	314	1165	0	839.2	
05/05/2015	47	315	1201	0	841.4	
04/28/2015	49	331	1158	0	837.3	
04/21/2015	48	331	1166	0	838.2	
04/15/2015	48	337	1168	0	838.8	
04/07/2015	49	322	1201	0	827.0	
04/01/2015	49	311	1201	0	826.7	
03/24/2015	49	323	1195	0	827.4	
03/17/2015	49	324	1149		825.0	
03/10/2015	46	326	1223	0	824.8	
03/04/2015	42	324	1164	0	827.5	