



August 12, 2013

HAND DELIVERED

Mr. Robin Jones  
District 1 Supervisor  
Land Quality Division  
Wyoming Department of Environmental Quality  
122 W. 25<sup>th</sup> Street  
Cheyenne, WY 82002

**July 2013 Excursion Report Summary Update, Cameco Resources, Smith Ranch-Highland Uranium Project, Permit 603 and 633**

Dear Mr. Jones:

Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is submitting the monthly Excursion Report Summary for the Smith Ranch-Highland Uranium Project. Zero (0) new excursions were reported during the month of July 2013. The Cameco Excursion Report table is attached. Monitor Wells DM-003 and KMO-007 remained on excursion from the previous month.

Chloride concentrations in Monitor Well DM-003 for the month of July continue to be above the UCL but have remained stable through the report period. Alkalinity and conductivity fluctuated slightly. During the March 18, 2013 meeting with LQD, Cameco reviewed the underground workings treatment plan involving injection of clean water at the upslope of the workings in MU-C. Cameco began installation of the infrastructure needed to implement the treatment plan in May and continued through the report period.

Concentrations in Monitor Well KMO-007 for all parameters stayed relatively stable during the report period. The 90-day Compliance Plan and Schedule for Well KMO-007 was submitted to LQD with the June Monthly Excursion Update. During the report period, MIT's were conducted on the remaining injections wells up-gradient of KMO-007, no failures were found. Cameco is currently discussing if a longer stress test in the overlying aquifer would be beneficial, no determination has yet been made. Cameco continues to assess possible sources for the elevated concentrations in this well and plans to meet with LQD at the end of August 2013 to discuss findings. Updates on the status of the Compliance Plan and Schedule will continue to be submitted within the Monthly Excursion Updates.

**CAMECO RESOURCES**

Smith Ranch-Highland  
Operation

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FSME20  
FSME

Copies of the monitor well reports for these wells are attached. Also attached please find graphs tracking alkalinity, chloride, conductivity and water level trends for each well. Please note that the water level graph represents depth of water where the monitor well report data sheet gives water level in elevation.

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

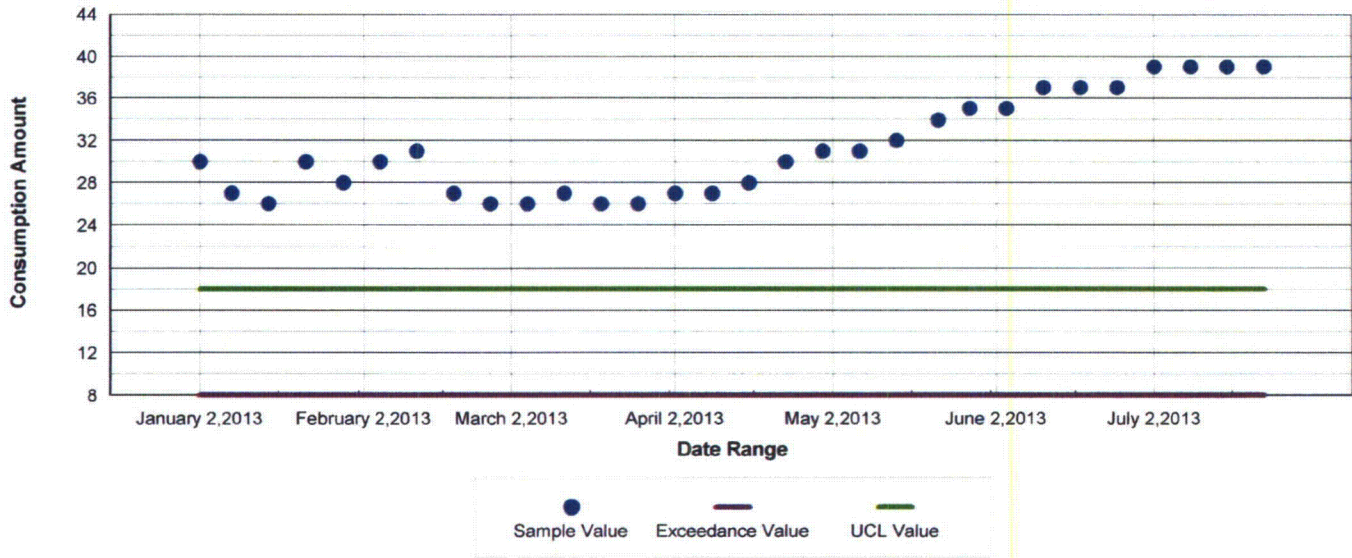
Attachments: Cameco Resources Excursion Report  
Monitor Well Report and Trend Graphs for DM-003 and KMO-007

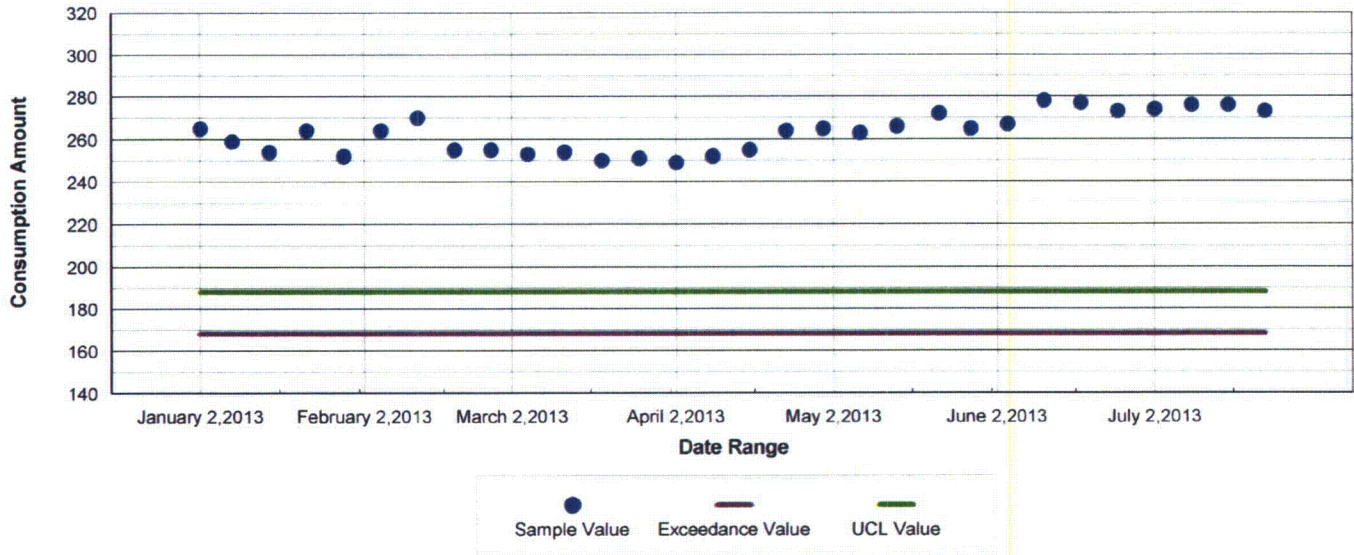
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Special Volume: Monthly Excursion Reports Summary Updates, Permit 603 and 633  
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Document Control Desk, NRC - CERTIFIED MAIL # 7012 2210 0002 5617 0420

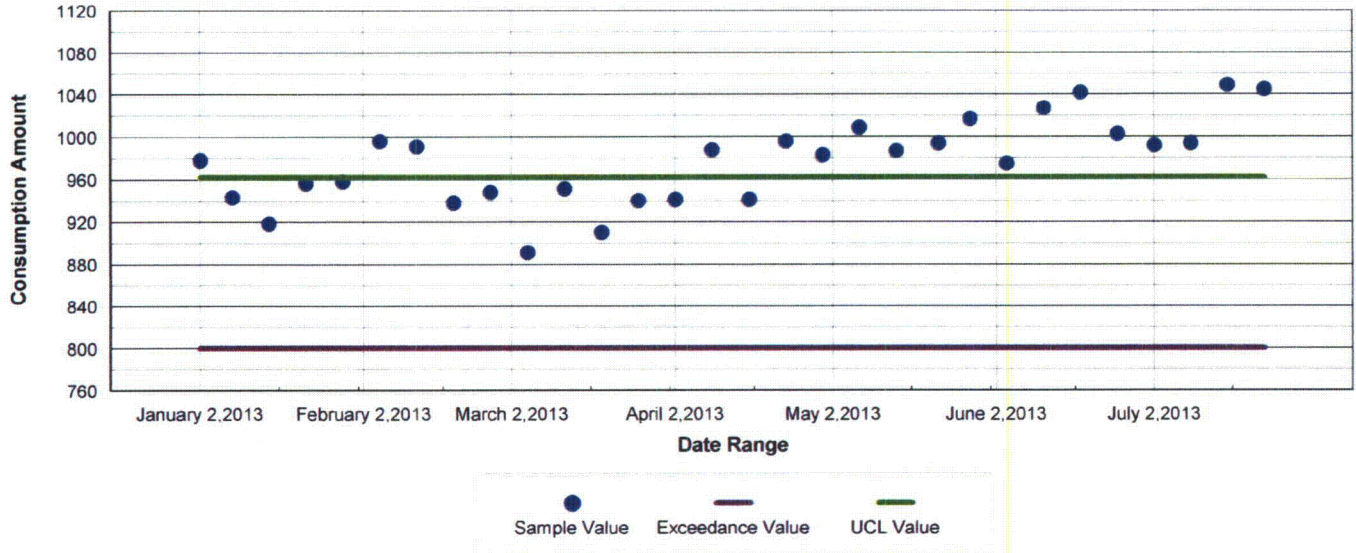
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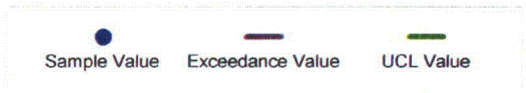
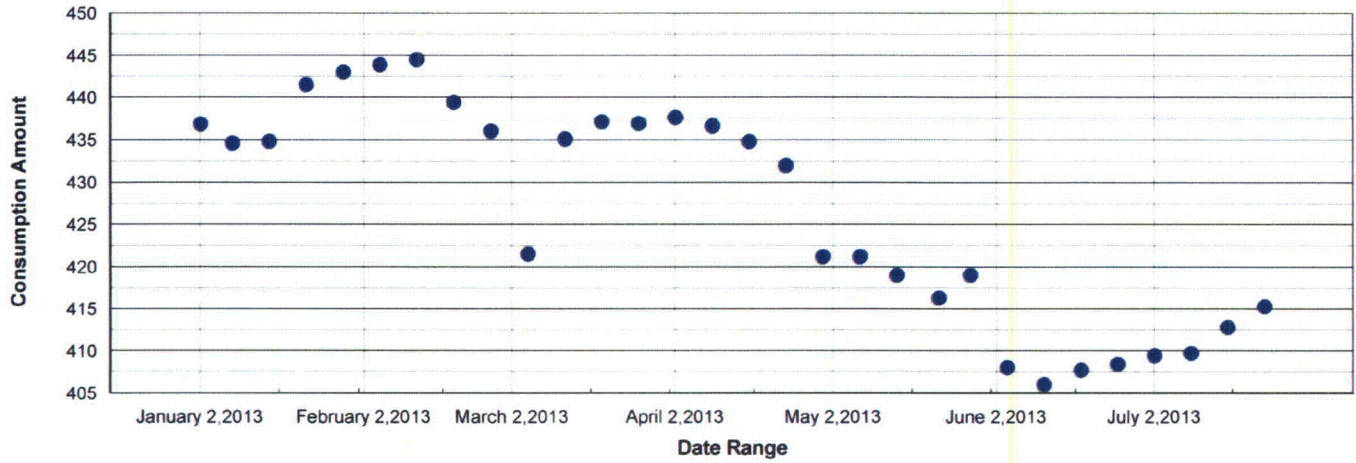
**Cameco Resources Excursion Report  
Permit Nos. 603 & 633  
(July 2013)**

Well Identification	Initial Sample Date	Confirmation Sample Date	Excursion Status (on/off)	Parameters Exceeded	Verbal Notification Date	Written Notification Date	Excursion Resolution Date	LQD Concurrence Notification Date
DM-003	11/19/2009	11/20/2009	<b>ON</b>	Chloride Alkalinity	11/23/2009	11/25/2009		
KMO-007	3/8/2013	3/11/2013	<b>ON</b>	Alkalinity Conductivity	3/12/2013	3/19/2013		











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

Well ID: DM-003

<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			
07/30/2013	39	279	1006	0	5081.1	
07/23/2013	39	273	1045	0	5081.1	
07/16/2013	39	276	1049	0	5083.6	
07/09/2013	39	276	994	0	5086.7	
07/02/2013	39	274	992	0	5087.0	
06/25/2013	37	273	1003	0	5088.0	
06/18/2013	37	277	1042	0	5088.7	
06/11/2013	37	278	1027	0	5090.4	
06/04/2013	35	267	975	0	5088.4	
05/28/2013	35	265	1017	0	5077.4	
05/22/2013	34	272	994	0	5080.1	
05/14/2013	32	266	987	0	5077.4	
05/07/2013	31	263	1009	0	5075.2	
04/30/2013	31	265	983	0	5075.2	
04/23/2013	30	264	996	0	5064.4	
04/16/2013	28	255	941	0	5061.6	
04/09/2013	27	252	988	0	5059.8	
04/02/2013	27	249	941	0	5058.8	
03/26/2013	26	251	940	0	5059.5	
03/19/2013	26	250	910	0	5059.3	
03/12/2013	27	254	951	0	5061.3	
03/05/2013	26	253	891	0	5074.9	
02/26/2013	26	255	948	0	5060.4	

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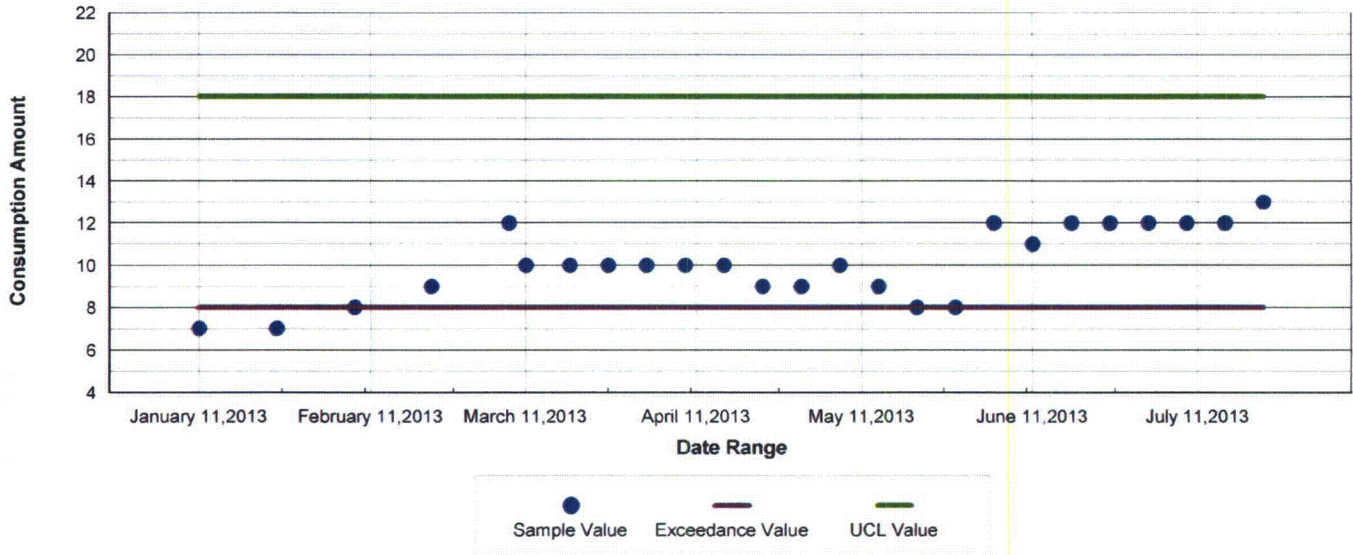


**Cameco Resources**  
**Smith Ranch - Highland Operation**  
**Monitor Well Report**

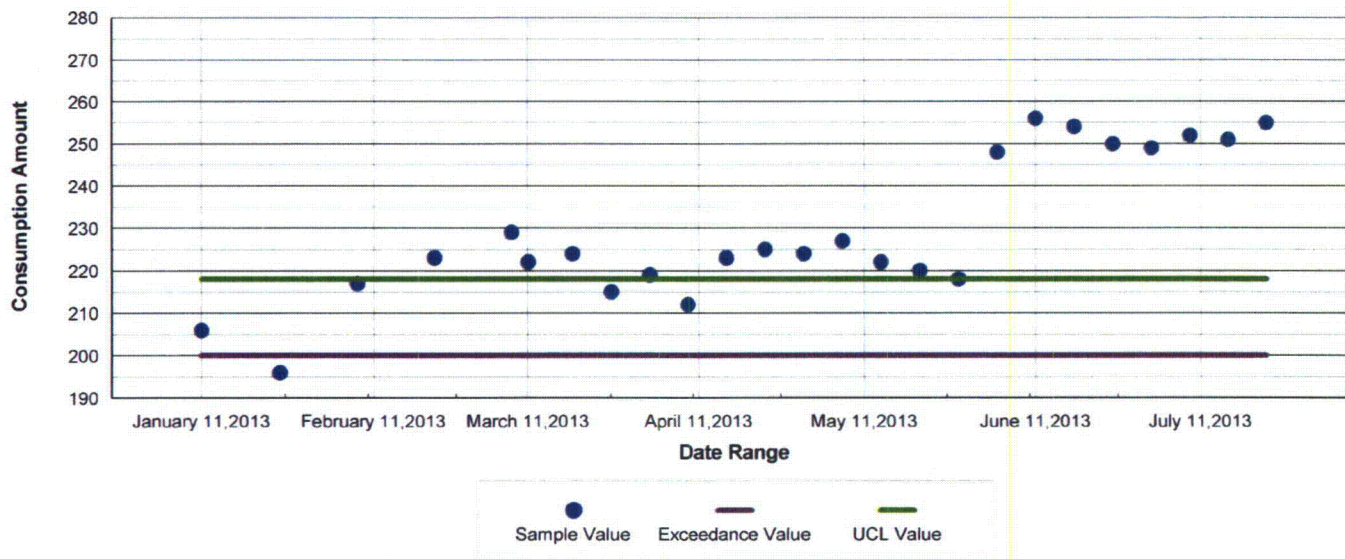
Well ID: DM-003

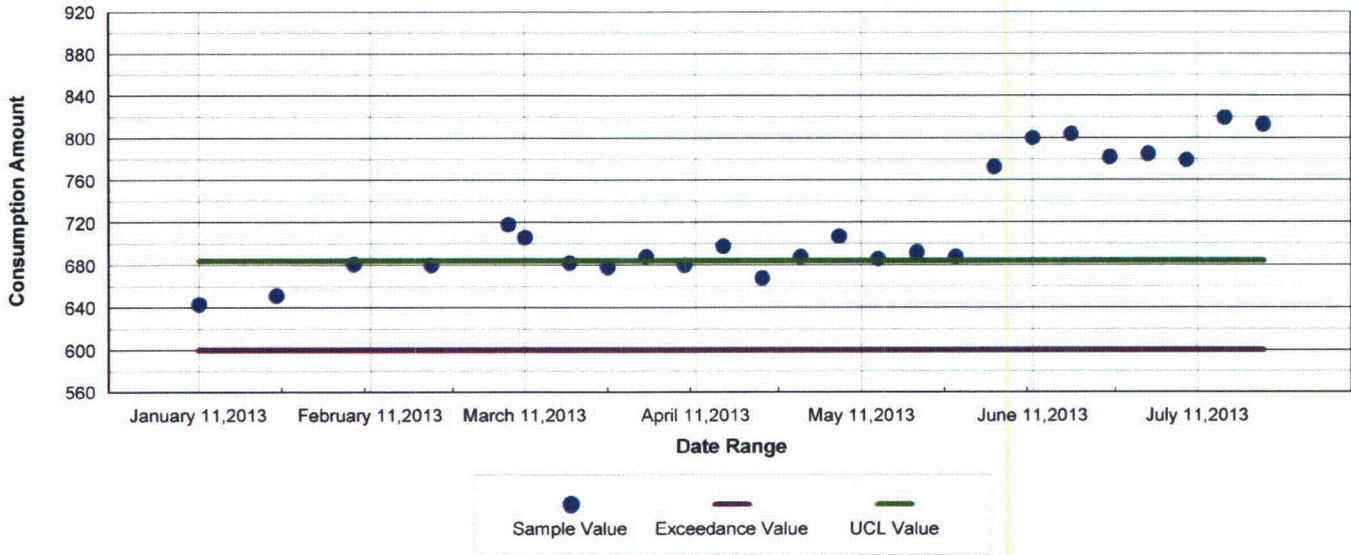
<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
02/19/2013	27	255	938	0	5057.0	
02/12/2013	31	270	991	0	5051.9	
02/05/2013	30	264	996	0	5052.5	
01/29/2013	28	252	958	0	5053.4	
01/22/2013	30	264	956	0	5054.9	
01/15/2013	26	254	918	0	5061.6	
01/08/2013	27	259	943	0	5061.8	
01/02/2013	30	265	978	0	5059.6	

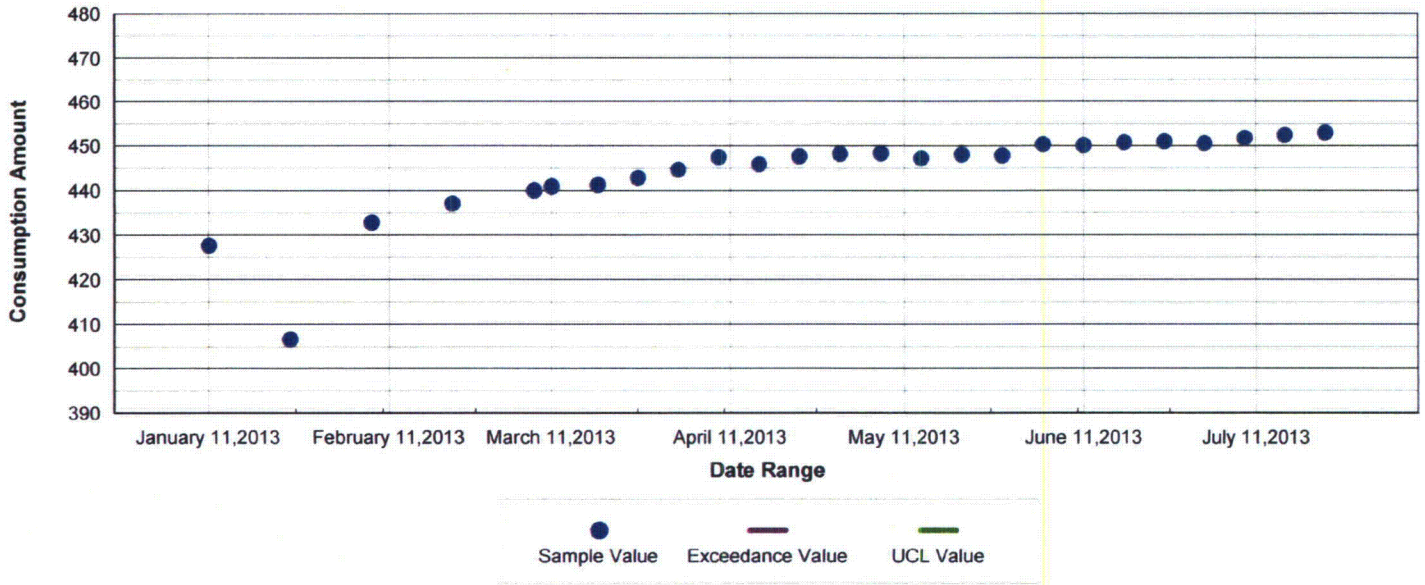
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**Alkalinity**  
**Trending Analysis**  
 Well : KMO-007









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

*Well ID:* KMO-007

<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	218	684				
07/30/2013	12	256	788	0	5207.5	
07/23/2013	13	255	813	0	5207.8	
07/16/2013	12	251	819	0	5208.3	
07/09/2013	12	252	779	0	5209.0	
07/02/2013	12	249	785	0	5210.2	
06/25/2013	12	250	782	0	5209.8	
06/18/2013	12	254	804	0	5210.0	
06/11/2013	11	256	800	0	5210.6	
06/04/2013	12	248	773	0	5210.4	
05/28/2013	8	218	688	0	5213.0	
05/21/2013	8	220	692	0	5212.8	
05/14/2013	9	222	686	0	5213.6	
05/07/2013	10	227	707	0	5212.5	
04/30/2013	9	224	688	0	5212.6	
04/23/2013	9	225	668	0	5213.2	
04/16/2013	10	223	698	0	5215.0	
04/09/2013	10	212	680	0	5213.4	
04/02/2013	10	219	688	0	5216.2	
03/26/2013	10	215	678	0	5218.0	
03/19/2013	10	224	682	0	5219.6	
03/11/2013	10	222	706		5219.9	
03/08/2013	12	229	718		5220.8	
02/22/2013	9	223	680		5223.7	

08/07/2013



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

*Well ID: KMO-007*

<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	218	684			
02/08/2013	8	217	681		5228.0	
01/25/2013	7	196	651		5254.2	
01/11/2013	7	206	643		5233.2	

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