



September 9, 2013

HAND DELIVERED

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

CAMECO RESOURCES

*Smith Ranch-Highland
Operation
Mail:
P.O. Box 1210
Glenrock, WY
82637 USA*

*Tel: (307) 358-6541
Fax: (307) 358-4533
www.cameco.com*

August 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. One (1) new excursion, Monitor Well CM-032, was reported during the month of August 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 August continue to be above the UCL but have remained stable through the report period. Alkalinity concentrations have decreased slightly and conductivity concentrations continued to fluctuate. 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. Work on the infrastructure continued through the report period.

Concentrations in Monitor Well KMO-007 for all parameters decreased slightly during the report period. Cameco met with LQD on site, August 28, 2013, to discuss findings and determine a path forward. It was agreed that this excursion is atypical in nature and that Cameco will continue to monitor the well with weekly sampling. At such a point (time frame undecided) that the well demonstrates stable concentrations Cameco may request the UCL's be modified. If the well were to demonstrate increased elevations Cameco would again investigate possible sources. Updates on the status of the Compliance Plan and Schedule will be submitted in response to LQD's review of the June 2013 Monthly Excursion Report and 90 Day Excursion

Control Plan for KMO-007 dated August 20, 2013. Cameco will continue to submit sampling results and basic updates within the Monthly Excursion Updates.

Analytical results received on August 7, 2013 for Monitor Well CM-032 for the routine sample taken on August 6, 2013 indicated a potential exceedance in alkalinity and conductivity. A confirmation sample was collected and analyzed, with a quality assurance duplicate, on August 7, 2013. Results of this laboratory analyses were received on August 8, 2013 and indicated no excursion. A second confirmation sample was collected on August 8, 2013 and confirmed the exceedance of Upper Control Limit (UCL) parameters in alkalinity and conductivity. WDEQ-LQD was notified by telephone and email on August 12, 2013 with written notification following on August 15, 2013.

Monitor Well CM-032 remained on excursion throughout the remainder of the report period with concentrations in alkalinity decreasing slowly and conductivity concentrations fluctuating. Chloride has remained stable. Pump wells CP-175 and CP-169 were started on August 7, 2013 as excursion control.

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 if you have questions.

Respectfully,



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

KG/vg

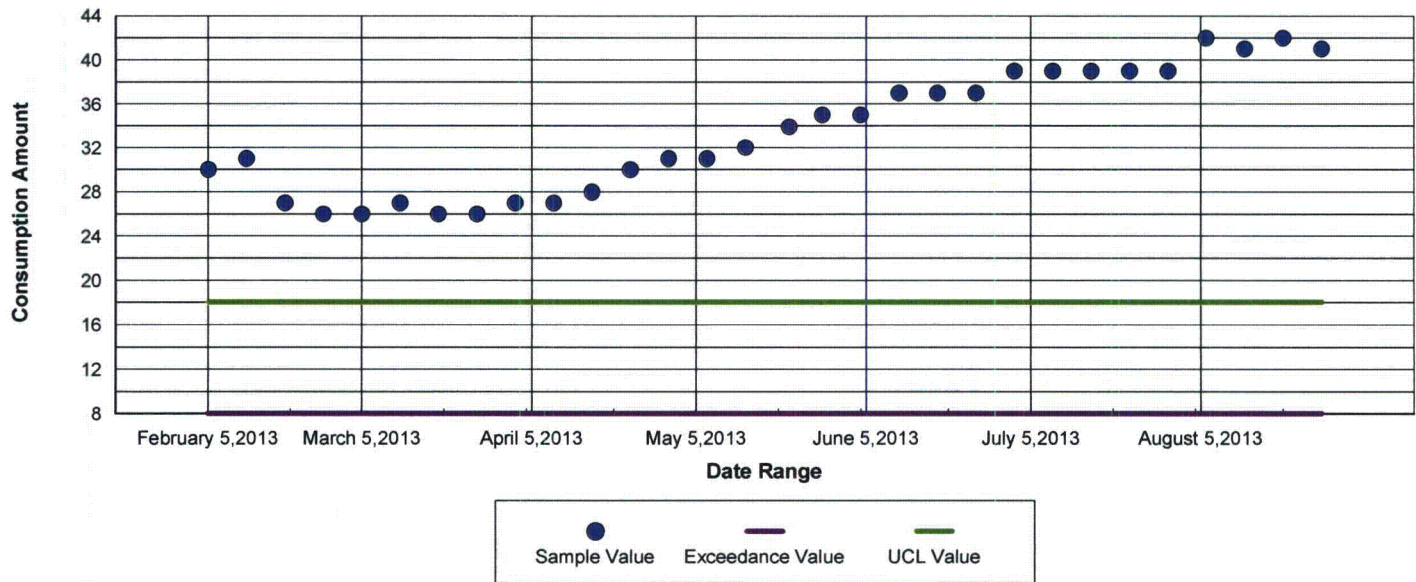
Attachments: Cameco Resources Excursion Report
Monitor Well Report and Trend Graphs for DM-003, KMO-007 and CM-032

cc: File HUP 4.3.3.1 File SR 4.3.3.1
Special Volume: Monthly Excursion Reports Summary Updates, Permit 603 and 633
Mr. Doug Mandeville, NRC - CERTIFIED MAIL # 7012 2210 0002 5617 0536
Document Control Desk, NRC - CERTIFIED MAIL # 7012 2210 0002 5617 0543

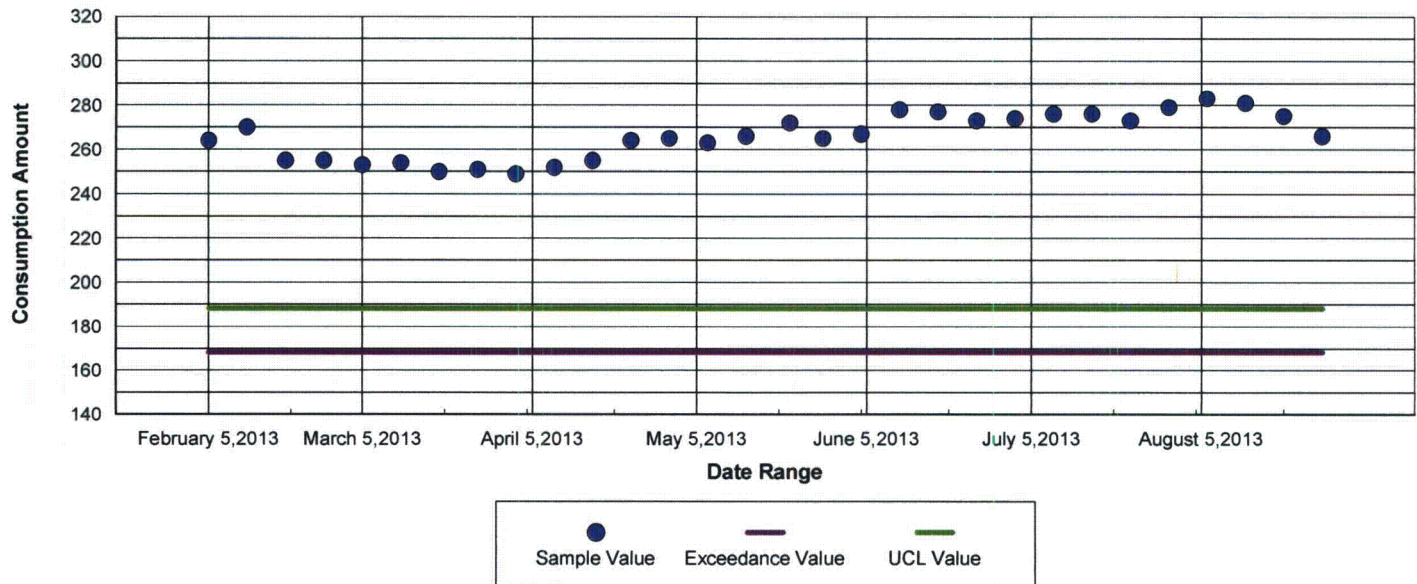
cc: Cameco-Cheyenne

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

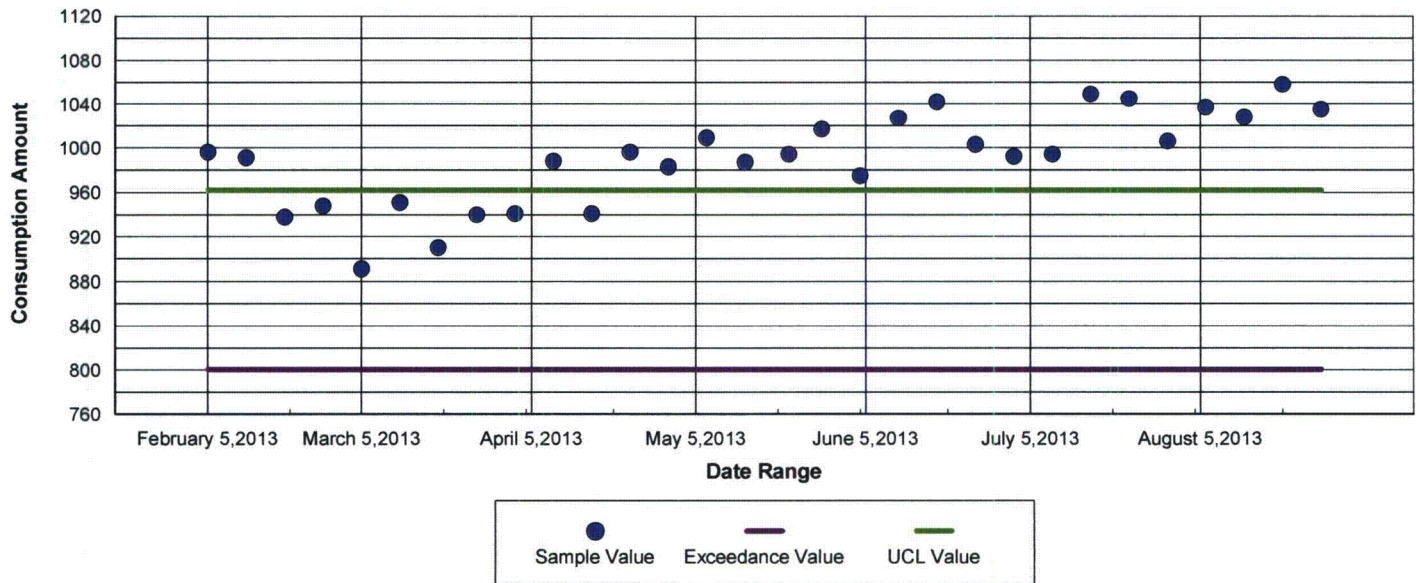
Well Identification	Initial Sample Date	Confirmation Sample Date	Excursion Status (on/off)	Parameters Exceeded	Verbal Notification Date	Written Notification Date	Excursion Resolution Date	LQD Concurrence Notification Date
DM-003	11/19/2009	11/20/2009	ON	Chloride Alkalinity	11/23/2009	11/25/2009		
KMO-007	3/8/2013	3/11/2013	ON	Alkalinity Conductivity	3/12/2013	3/19/2013		
CM-032	8/6/2013	3/8/2013	ON	Alkalinity Conductivity	8/12/2013	8/15/2013		

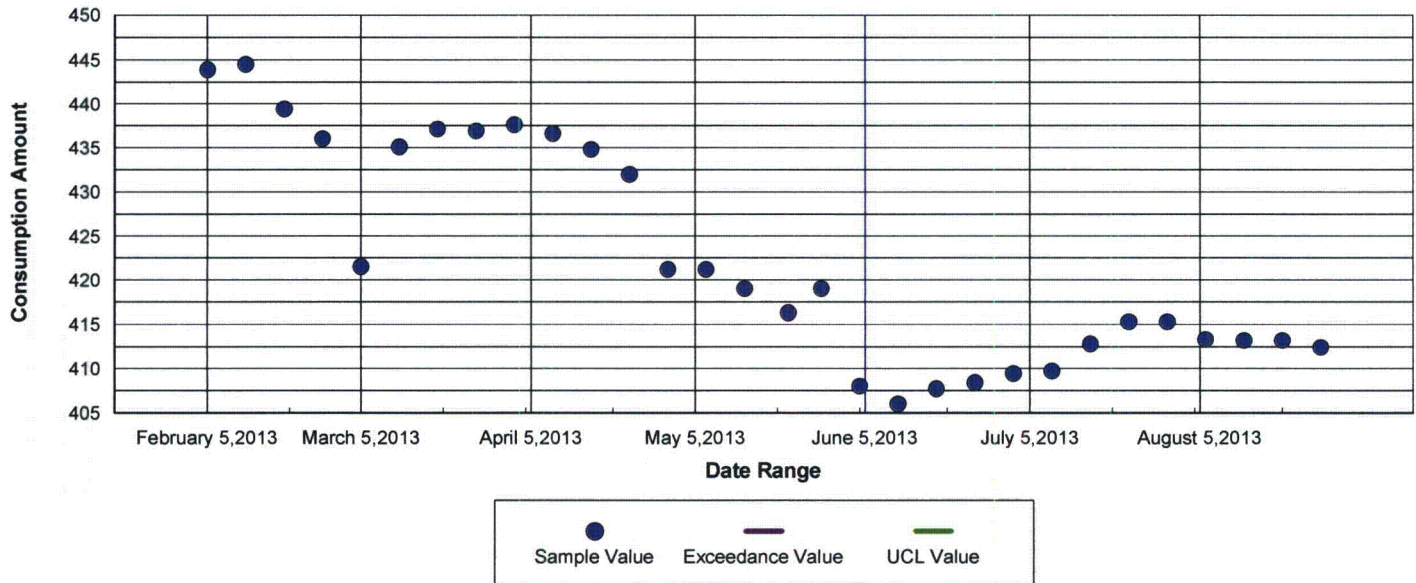


Alkalinity
Trending Analysis
Well : DM-003



Conductivity
Trending Analysis
Well : DM-003







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 CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
08/27/2013	41	266	1035	0	5084.0	
08/20/2013	42	275	1058	0	5083.2	
08/13/2013	41	281	1028	0	5083.2	
08/06/2013	42	283	1037	0	5083.1	
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	

09/05/2013



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 CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
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	
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	
12/26/2012	30	267	946	0	5061.5	
12/18/2012	30	264	963	0	5057.6	
12/11/2012	28	259	893	0	5058.4	
12/04/2012	25	251	959	0	5056.6	
11/27/2012	24	246	930	0	5053.4	
11/20/2012	24	259	881	0	5047.8	
11/13/2012	18	250	859	0	5047.0	
11/06/2012	28	274	998	0	5047.8	
10/30/2012	30	278	998	0	5048.2	
10/23/2012	34	293	1077	0	5054.0	
10/16/2012	37	303	1037	0	5058.7	

09/05/2013



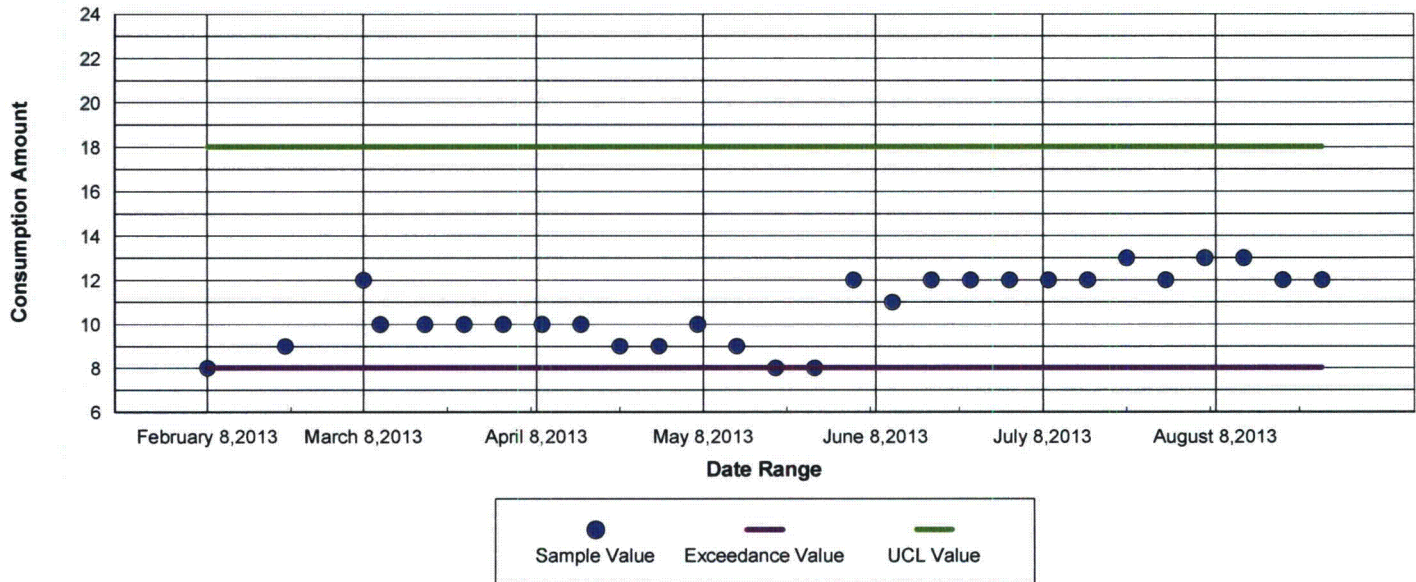
Cameco Resources
Smith Ranch - Highland Operation
Monitor Well Report

Well ID: DM-003

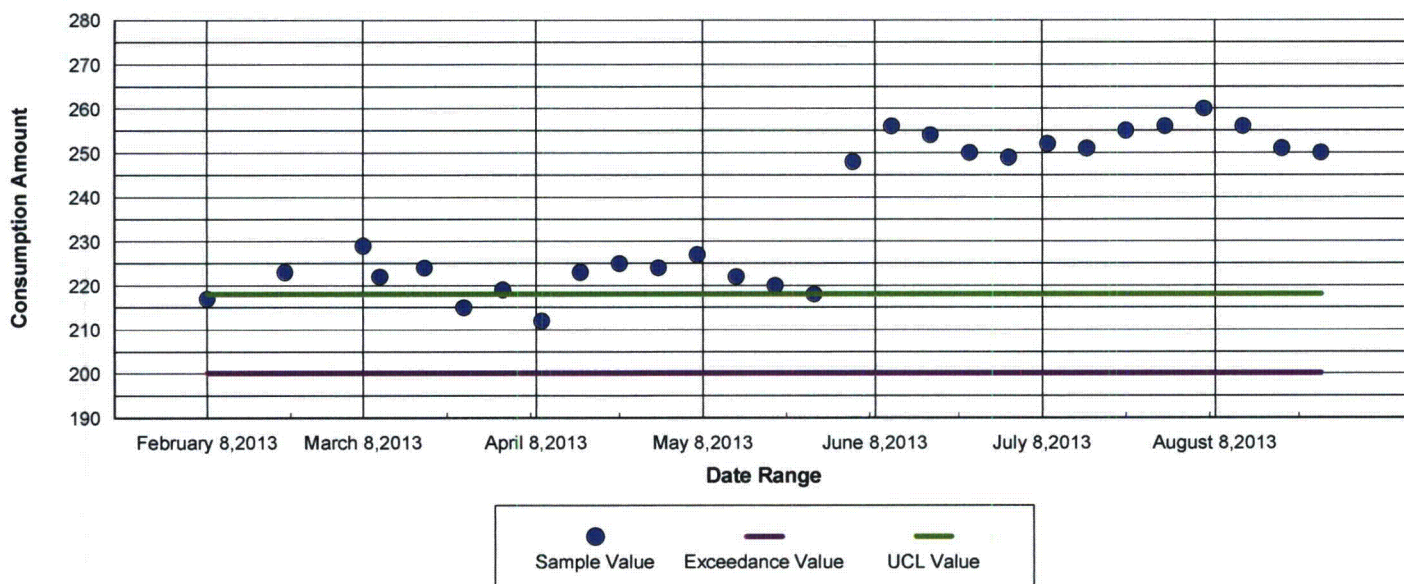
<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
10/09/2012	35	300	1045	0	5047.8	
10/02/2012	38	303	1046	0	5048.2	
09/25/2012	36	304	1027	0	5050.8	
09/18/2012	34	292	960	0	5055.6	
09/11/2012	25	249	874	0	5074.0	
09/04/2012	25	246	936	0	5075.6	
08/28/2012	24	250	963	0	5076.8	
08/21/2012	25	254	931	0	5066.5	
08/14/2012	25	246	905	0	5080.8	
08/07/2012	25	248	952	0	5085.2	

09/05/2013

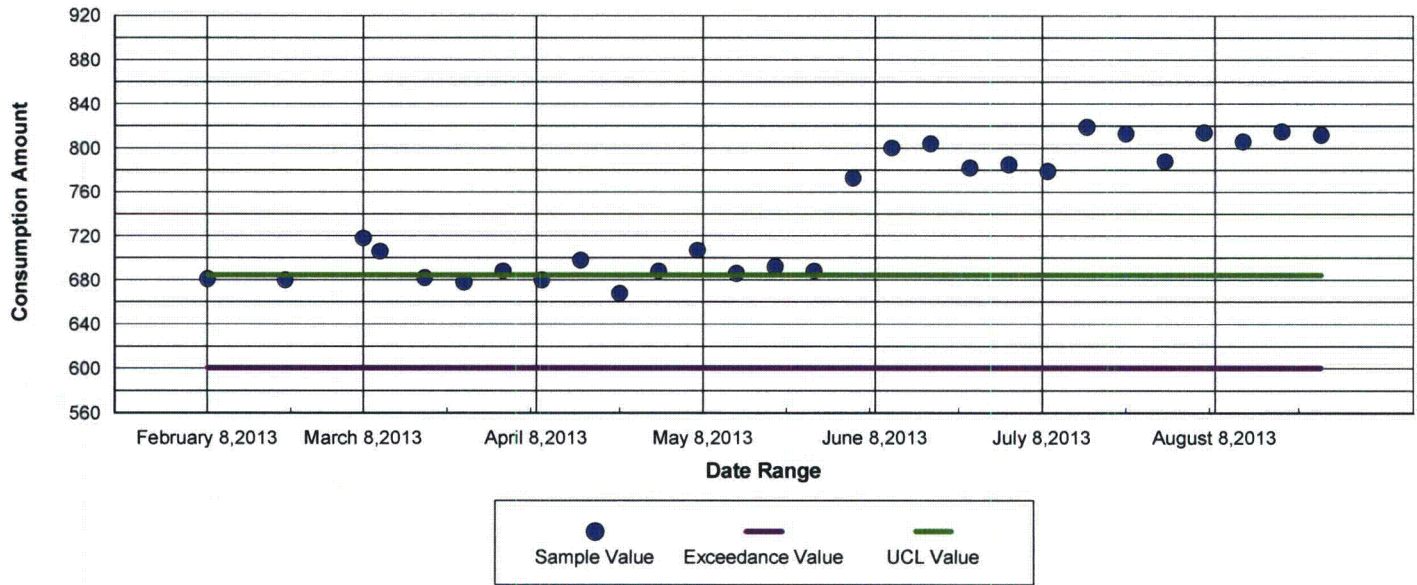
Chloride
Trending Analysis
Well : KMO-007



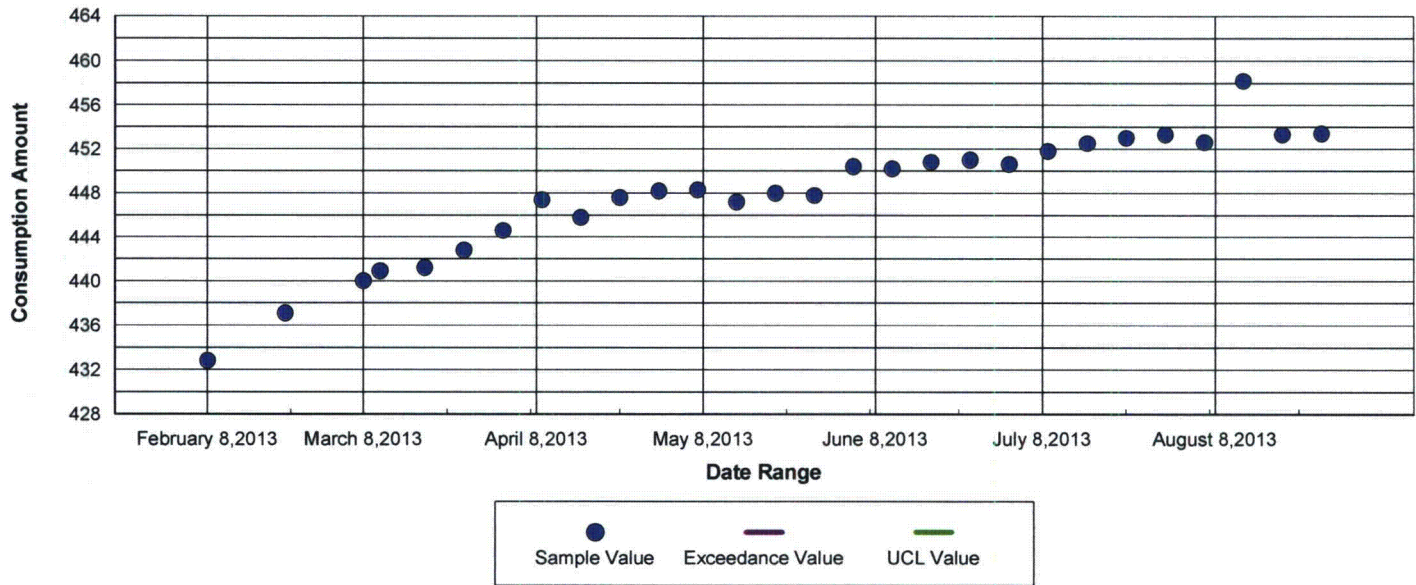
Alkalinity
Trending Analysis
 Well : KMO-007



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



**Water Level
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 CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	218	684			
08/27/2013	12	250	812	0	5207.4	
08/20/2013	12	251	815	0	5207.5	
08/13/2013	13	256	806	0	5202.6	
08/06/2013	13	260	814	0	5208.2	
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	

09/05/2013

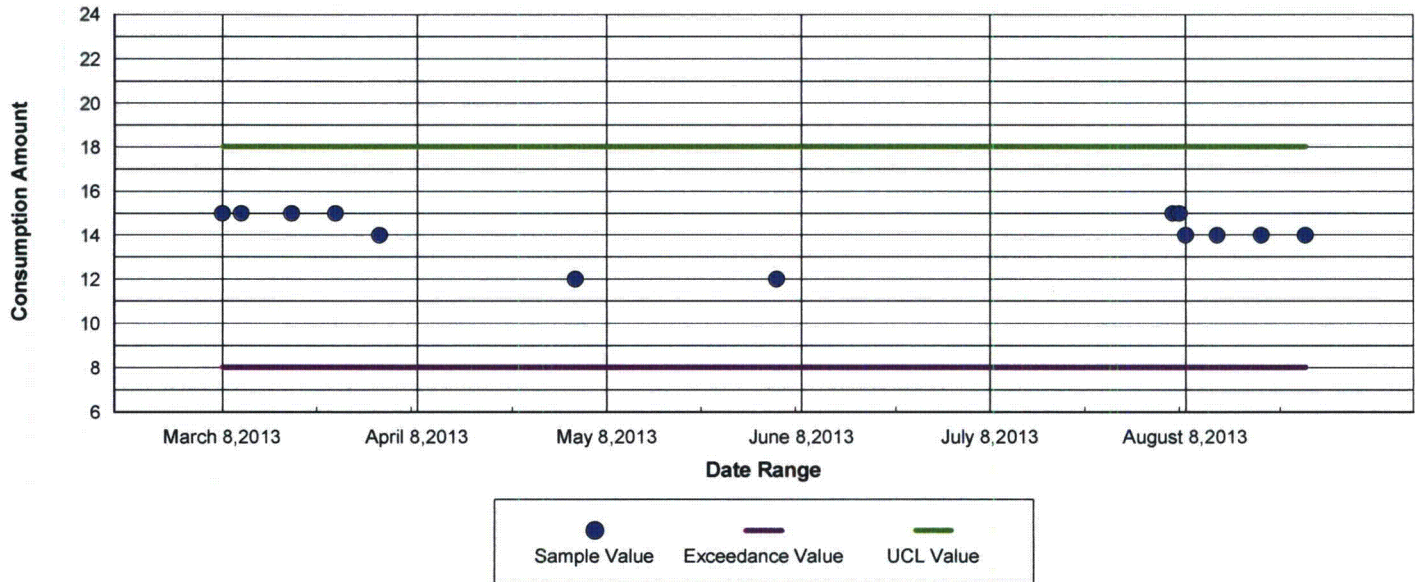


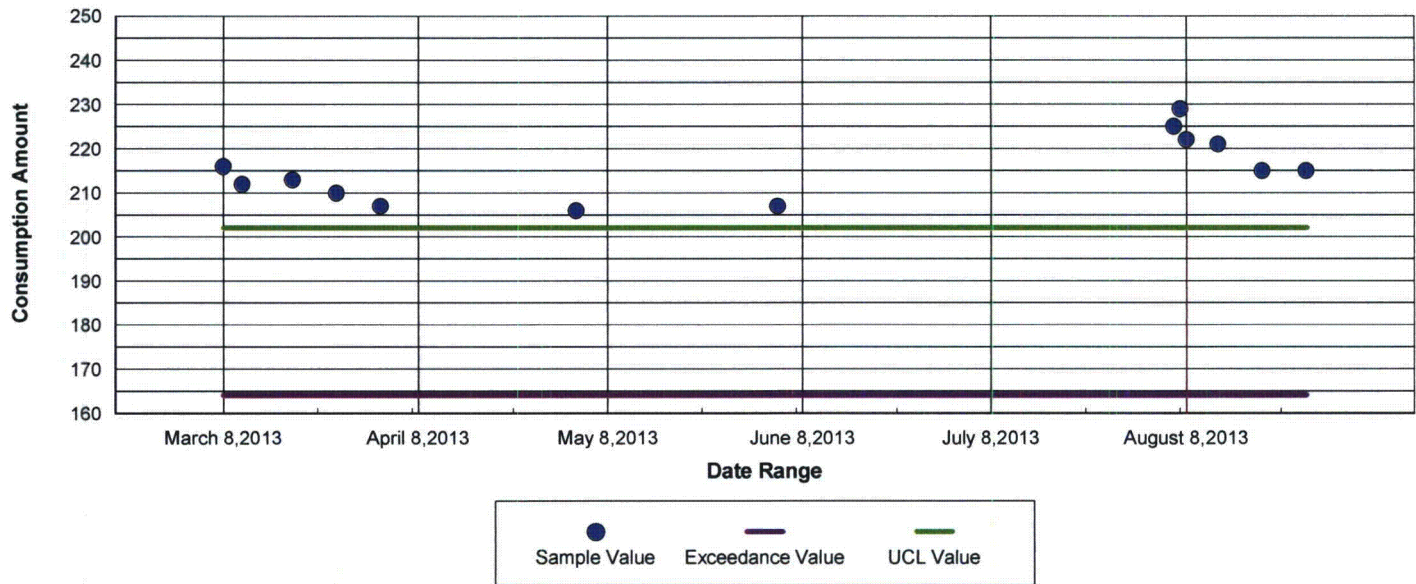
Cameco Resources
Smith Ranch - Highland Operation
Monitor Well Report

Well ID: KMO-007

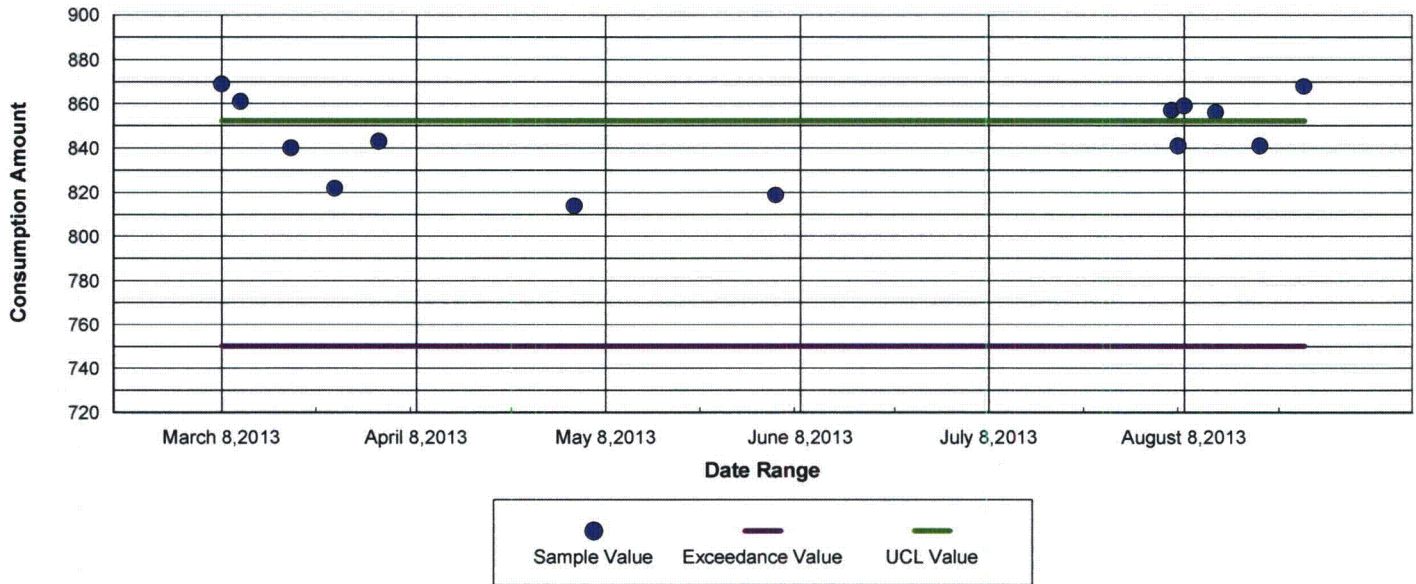
<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	218	684			
03/19/2013	10	224	682	0	5219.6	
03/11/2013	10	222	706		5219.9	
03/08/2013	12	229	718		5220.8	
02/22/2013	9	223	680		5223.7	
02/08/2013	8	217	681		5228.0	
01/25/2013	7	196	651		5254.2	
01/11/2013	7	206	643		5233.2	
12/26/2012	8	209	652		5237.0	
12/11/2012	8	208	658		5237.6	
11/19/2012	8	218	660		5235.8	
11/06/2012	8	212	631		5234.0	
10/23/2012	7	213	638		5233.8	
10/08/2012	6	206	609		5234.8	
09/25/2012	7	210	629		5234.2	
09/11/2012	6	205	611		5234.8	
08/21/2012	7	212	640		5235.2	
08/07/2012	7	207	610		5233.9	

09/05/2013

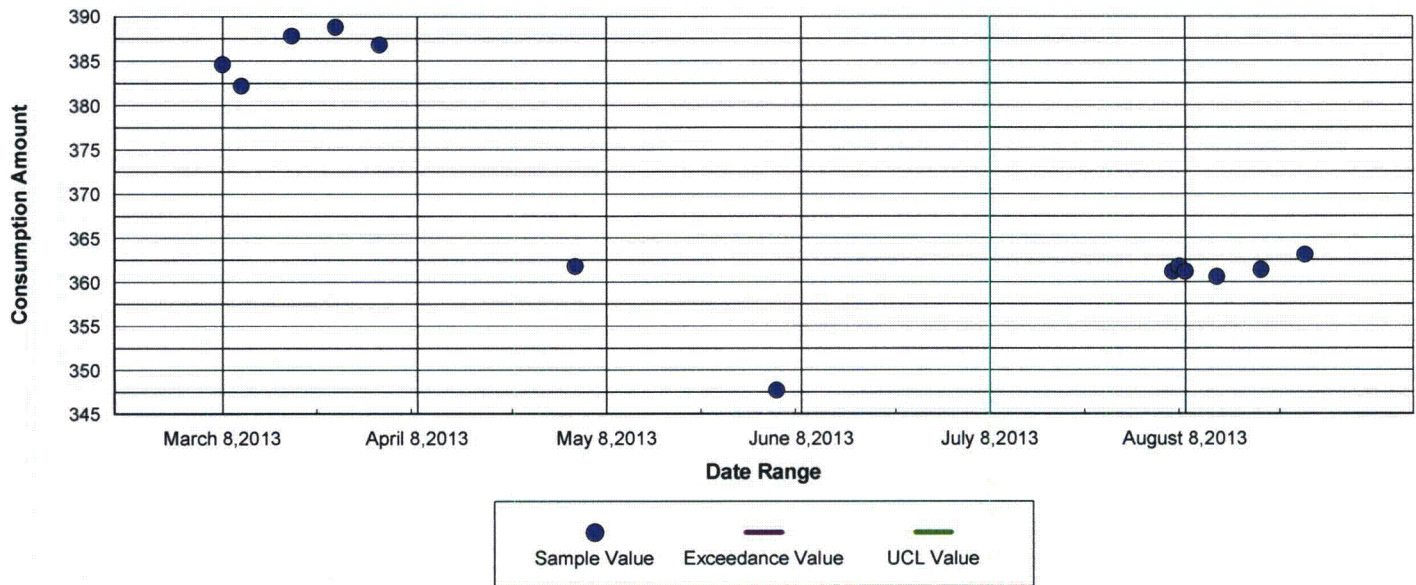




Conductivity
Trending Analysis
Well : CM-032



Water Level
Trending Analysis
 Well : CM-032





Cameco Resources
Smith Ranch - Highland Operation
Monitor Well Report

Well ID: CM-032

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	202	852			
08/27/2013	14	215	868	0	5074.4	
08/20/2013	14	215	841	0	5076.1	
08/13/2013	14	221	856	0	5076.9	
08/08/2013	14	222	859		5076.3	
08/07/2013	15	229	841		5075.7	
08/06/2013	15	225	857		5076.3	
06/04/2013	12	207	819		5089.8	
05/03/2013	12	206	814		5075.7	
04/02/2013	14	207	843	0	5050.7	
03/26/2013	15	210	822	0	5048.7	
03/19/2013	15	213	840	0	5049.7	
03/11/2013	15	212	861		5055.3	
03/08/2013	15	216	869		5052.9	
01/08/2013	15	205	835		5056.7	
11/09/2012	11	201	795		5061.2	
09/11/2012	7	183	725		5068.9	

09/05/2013