

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

August 22, 2022

ATTN: Document Control Desk, Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Source Materials License SUA-1534
Docket No. 40-8943
SM6-28 Monitor Well Excursion - Final Report Amendment

Dear Document Control Desk:

On May 29, 2020, during routine biweekly water sampling of Cameco Resources, Crow Butte Operation (CBO) shallow monitor well SM6-28, the multiple parameter upper control limits (MCL) for conductivity and alkalinity were exceeded. As required by License Condition 11.1.5 of Source Materials License SUA-1534, a second sample was collected within 24 hours and analyzed for the three excursion indicator parameters. The results of the second sample exceeded the MCL's for conductivity and alkalinity as well.

In accordance with License Condition 11.2.2 of Source Materials License SUA-1534, CBO increased the sampling frequency for SM6-28 to weekly for natural uranium. Weekly samples were obtained from May 30, 2020, to June 17, 2020. It was identified during the Crow Butte Operation's scheduled NRC inspection that the results of the samples were not provided to the NRC within 60 days of the excursion confirmation as required. CBO removed SM6-28 from excursion status and returned it to routine biweekly sampling. Attached are the results of the weekly natural uranium samples. This letter and attachments are to serve as an amendment to the SM6-28 Monitor Well Excursion – 60 Day Report dated July 13, 2020.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 117.

Sincerely,
Cameco Resources
Crow Butte Operation

Casey Yada
SHEQ Coordinator

CROW BUTTE RESOURCES, INC.



Enclosures: As Stated

cc: NRC – Deputy Director
CBO - File

ec: CBO



Face Analytical Formerly Inter-Mountain Laboratories
 1673 Terra Avenue Sheridan, WY 82801

ph: (307) 672-8945

Sample Analysis Report

CLIENT: Cameco Resources, Crow Butte Operation
 PO Box 169
 Crawford, NE 69339

Date Reported: 6/5/2020
Report ID: S2006063001

Work Order: S2006063

Project: Excursion Monitor Wells 5/21-5/30
COC: WEB

Date Received: 6/3/2020 12:00:00 PM
Sampler:

Lab ID: S2006063-001 **Collection Date:** 5/30/2020
Client Sample ID: SM6-28 5/30/20 **Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.0583	0.0018		mg/L	06/04/2020 01:18 MS	EPA 200.8

Lab ID: S2007039-003 **Collection Date:** 6/17/2020
Client Sample ID: SM8-25 6-17-20 **Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.134	0.0003		mg/L	07/07/2020 01:21 MS	EPA 200.8

Lab ID: S2007039-004 **Collection Date:** 6/2/2020
Client Sample ID: SM6-28 6-2-20 **Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.0555	0.0003		mg/L	07/07/2020 01:44 MS	EPA 200.8

Lab ID: S2007039-005 **Collection Date:** 6/10/2020
Client Sample ID: SM6-28 6-10-20 **Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.0619	0.0003		mg/L	07/07/2020 01:50 MS	EPA 200.8

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 1673 Terra Avenue Sheridan, WY 82801

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Sample Analysis Report

CLIENT: Cameco Resources, Crow Butte Operation
 PO Box 169
 Crawford, NE 69339

Date Reported: 7/8/2020
Report ID: S2007039001

Work Order: S2007039

Project: EXCURSION MONITOR WELLS 6/2-6/17
COC: WEB

Date Received: 7/2/2020 11:42:00 AM
Sampler:

Lab ID: S2007039-006 **Collection Date:** 6/17/2020
Client Sample ID: SM6-28 6-17-20 **Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.0610	0.0003		mg/L	07/07/2020 02:09 MS	EPA 200.8