

**CAMECO RESOURCES
CROW BUTTE OPERATION**



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March 29, 2016

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

Semiannual Radiological Effluent and Environmental Monitoring Report
Source Materials License No. SUA-1534, Docket No. 40-8943

Dear Document Control:

By letter dated August 21, 2015, Crow Butte Resources, Inc. submitted one copy of the Semiannual Radiological Effluent and Environmental Monitoring Report for the Crow Butte Uranium Project. The report is provided in accordance with License Condition 11.1(B) of Source Materials License SUA-1534 and 10 CFR Part 40. The report covered the first and second quarters of 2015. Crow Butte has discovered that one of the data sheets submitted in Appendix G was incorrect. The first page in the appendix contained data for the first and second quarters of 2014 instead of the first and second quarters of 2015. Please find enclosed the replacement page for this report.

If you have any questions concerning the report, please feel free to call me at (308) 665-2215 Ext 114.

Sincerely,
CAMECO RESOURCES
CROW BUTTE OPERATION

Larry Teahon
Manager of Safety, Health, Environment & Quality

cc: Ron Burrows – NRC
Nancy Harris – NDEQ, Lincoln Office
CBO - File
ec: CR – Casper

NM5520

Crow Butte Resources, Inc.
Crow Butte Uranium Project

Track Etch Cup Ambient Radon Concentrations

*Air Monitoring Station
No.*

Period: January 2, 2015 to July 1, 2015

	Gross Count	Average Radon Concentration (x 10 ⁻⁹ μCi/ml)	Accuracy (x 10 ⁻⁹ μCi/ml)	Percent Effluent Concentration
AM-1A	72.0	0.2	0.02	2.0%
AM-1B	92.0	0.2	0.02	2.0%
AM-1C	86.0	0.2	0.02	2.0%
AM-2A	91.0	0.2	0.02	2.0%
AM-2B	113.0	0.3	0.03	3.0%
AM-2C	107.0	0.2	0.02	2.0%
AM-3A	88.0	0.2	0.02	2.0%
AM-3B	93.0	0.2	0.02	2.0%
AM-3C	81.0	0.2	0.02	2.0%
AM-4A	101.0	0.2	0.02	2.0%
AM-4B	87.0	0.2	0.02	2.0%
AM-4C	97.0	0.2	0.02	2.0%
AM-5A	106.0	0.2	0.02	2.0%
AM-5B	125.0	0.3	0.03	3.0%
AM-5C	97.0	0.2	0.02	2.0%
AM-6A	96.0	0.2	0.02	2.0%
AM-6B	88.0	0.2	0.02	2.0%
AM-6C	79.0	0.2	0.02	2.0%
AM-8A	116.0	0.3	0.03	3.0%
AM-8B	123.0	0.3	0.03	3.0%
AM-8C	109.0	0.2	0.02	2.0%
AM-9A	119.0	0.3	0.03	3.0%
AM-9B	108.0	0.2	0.02	2.0%
AM-9C	126.0	0.3	0.03	3.0%

LLD (x 10 ⁻⁹ μCi/ml)	0.2
Effluent Concentration Limit, 10 CFR 20 App B Column 2:	10