

**CAMECO RESOURCES
CROW BUTTE OPERATION**



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

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

January 6, 2010

Mr. Michael Linder, Director
Nebraska Department of Environmental Quality
P.O. Box 98922
Lincoln, NE 68509-8922

Subject: Class III UIC Permit NE0122611
December 2009 Monthly Restoration Report

Dear Mr. Linder:

Please find enclosed the December 2009 Monthly Restoration Reports for Mine Units 2, 3, 4, and 5. The reverse osmosis (RO) units continue to inject permeate into Mine Unit 2. Began injecting permeate and reductant into Mine Unit 3 at the beginning of the month. Mine Unit's 4 and 5 are in ion exchange.

The bioremediation study continues in Mine Unit 4.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 114.

Sincerely,
Cameco Resources
Crow Butte Operation

A handwritten signature in cursive script that reads "Larry Teahon". The ink is dark and the signature is fluid.

Larry Teahon
Mgr. Health, Safety and Environmental Affairs

Enclosures: As Stated

cc: Mr. Dave Carlson, NDEQ Chadron Office

Mr. Tom Young, Denver Office

Mr. Ron Burrows, NRC

CBO File

CROW BUTTE MINE
MONTHLY RESTORATION REPORT
DECEMBER 2009
MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		RO P97, P113, P118, P119, P120, P121, I175P, I180P, I188P, and P209.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P97, P113, P118, P119, P120, P121, I175P, I180P, I188P, and P209.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 DECEMBER 2009
 MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		RO and Reductant CM1-1, CM1-10, CM1-11, P232, P239, P246, P251, P252, P255, P259, P260, P262, I304P, I315P, I320P, I326P, and I343.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

CM1-1, CM1-10, CM1-11, P232, P239, P246, P251, P252, P255, P259, P260, P262, I304P, I315P, I320P, I326P, and I343.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 DECEMBER 2009
 MINE UNIT 4

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		IX I555P
d. Wellfield Recirculation		X	
e. Other (explain): Bioremediation test started on 12/17/08.	X		P380, P386, P421, P422, P423, and P424

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

I555P

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 DECEMBER 2009
 MINE UNIT 5

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		IX P683, P684, P690, P691, I759P, P767, P837, P952, P962, P1127, P1135, P1139, P1155, P1156, P1181, P1187, P1193, and I1202P.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P683, P684, P690, P691, I759P, P767, P837, P952, P962, P1127, P1135, P1139, P1155, P1156, P1181, P1187, P1193, and I1202P

