

**CAMECO RESOURCES  
CROW BUTTE OPERATION**



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

(308) 665-2215  
(308) 665-2341 – FAX

---

October 14, 2010

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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

Subject: Class III UIC Permit NE0122611  
September 2010 Monthly Restoration Report

Dear Mr. Linder:

Please find enclosed the September 2010 Monthly Restoration Reports for Mine Units 2, 3, 4, and 5. The reverse osmosis (RO) units continue to inject permeate and reductant into Mine Units 2 and 3. 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

Larry Teahon  
SHEQ, Manager

Enclosures: As Stated

cc: Dave Carlson, NDEQ Chadron Office  
Joe Brister, Cheyenne Office  
Ron Burrows, NRC  
CBO File

CROW BUTTE MINE  
 MONTHLY RESTORATION REPORT  
 SEPTEMBER 2010  
 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 P112, P113, I180P, 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, P112, P113, I180P, and P209



CROW BUTTE MINE  
 MONTHLY RESTORATION REPORT  
 SEPTEMBER 2010  
 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, CM1-11, P224, P225, P226, P228, P251, I296P, I326P, I343P, RES1E, RES2E, RES3E, and RES4E.
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, CM1-11, P224, P225, P226, P228, P251, I296P, I326P, I343P, RES1E, RES2E, RES3E, and RES4E.





CROW BUTTE MINE  
 MONTHLY RESTORATION REPORT  
 SEPTEMBER 2010  
 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 CM2-4, P373, P375, P377, P382, P405, and P429
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:

CM2-4, P373, P375, and P377.





CROW BUTTE MINE  
 MONTHLY RESTORATION REPORT  
 SEPTEMBER 2010  
 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 BL5-5, P683, P690, P700, P707, I759, P767, P773, P800, P962, I1000P, P1048, P1065, P1075, P1090, P1093, P1116, P1117, P1127, P1132, P1135, P1137, P1187, P1208, P1209, P1216, P1232, P1247, P1259, P1718, and P1885.
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, P690, P700, P707, I759P, P767, P773, P800, P962, I1000P, P1048, P1065, P1075,  
 P1090, P1093, P1116, P1117, P1127, P1132, P1135, P1137, P1187, P1232, and P1718.





