

**CAMECO RESOURCES
CROW BUTTE OPERATION**



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

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

May 19, 2010

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

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

Dear Mr. Linder:

Please find enclosed the April 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

A handwritten signature in cursive script that reads "Larry Teahon". The signature is fluid and matches the typed name below it.

Larry Teahon
SHEQ, Manager

Enclosures: As Stated

cc: Mr. Dave Carlson, NDEQ Chadron Office

Mr. Joe Brister, Cheyenne Office

Mr. Ron Burrows, NRC

CBO File

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 APRIL 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 P97, 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:

P112, P113, I180P, and P209

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 APRIL 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, P217, P222, P224, P225, P226, P228, P232, P235, P242, P251, P259, I296P, I298P, I304P, I315P, I326P, RES1E, ES2E, 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, P217, P222, P224, P225, P226, P228, P232, P235, P251, P259, I296P, I298P, I304P, I315P, I326P, I343P, RES1E, RES2E, RES3E, and RES4E.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 APRIL 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 P385, P405, and 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:

P385, P405, and I555P.

CROW BUTTE MINE
MONTHLY RESTORATION REPORT
APRIL 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 P683, P684, P690, P691, P700, I759P, P767, P793, P807, P962, I1000P, P1003, P1038, P1048, P1060, P1065, P1075, P1084, P1090, P1093, P1127, P1132, P1135, P1137, P1139, P1155, P1156, P1181, P1187, P1193, I1202P, P1208, P1209, P1216, P1247, P1259, P1263, P1718, P1876, 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, P684, P690, P691, P700, I759P, P767, P793, P807, P962, I1000P, P1003, P1038, P1048, P1060, P1065, P1075, P1084, P1090, P1093, P1127, P1132, P1135, P1137, P1139, P1155, P1156, P1181, P1187, P1193, I1202P, P1718, and P1885.

