

**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 10, 2009

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

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

Dear Mr. Linder:

Please find enclosed the July 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. Mine Unit's 3, 4, and 5 are in ion exchange.

The bioremediation study continues in Mine Unit 4. Additional EOS will be injected into the formation in August. The wells in the study area are shut down and will be sampled periodically to determine the effects of the EOS on the formation.

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 written in black ink and is positioned below the typed name.

Larry Teahon
Mgr. Health, Safety and Environmental Affairs

Enclosures: As Stated

cc: Mr. Dave Carlson, NDEQ Chadron Office

Mr. Steve Collings, Denver Office

Mr. Ron Burrows, NRC

CBO File

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 JULY 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 P83, P84, P88, P91, P92, P97, P98, P105, P110, P112, P118, P119, P121, and I195P.
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:

P83, P84, P88, P91, P92, P97, P98, P105, P110, P112, P118, P119, P121, and I195P.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 JULY 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		IX P239, P251, P252, P255, and P262
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:

P239, P251, P252, P255, and P262.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 JULY 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 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:

P405 and I555P.

Mine Unit 4 Restoration Data

Well	Date	U ₃ O ₈	V	Total CO ₃	pH	Ca	Na	Cl	SO ₄	Cond
P380	07/08/09	9.06		1080	7.03	81	930	479	704	4360
P386	07/08/09	6.99		1200	7.10	102	1057	550	867	5040
P405	07/01/09	6.82	<1							3750
P405	07/08/09	6.84								
P421	07/08/09	3.85		1005	7.21	74	901	470	698	4200
P422	07/08/09	2.08		900	7.23	84	857	461	685	4070
P423	07/08/09	3.95		1050	7.13	83	891	479	674	4240
P424	07/08/09	9.83		1110	7.15	94	1008	527	794	4780
I555P	07/01/09	5.34	<1							4050
I555P	07/08/09	5.18								

CROW BUTTE MINE
MONTHLY RESTORATION REPORT
JULY 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 P690, P691, P767, P796, P837, P962, P1135, P1138, P1139, P1144, P1155, P1156, P1181, 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:

P690, P691, P767, P796, P837, P1138, P1139, P1144, P1156, P1181, P1193, and I1202P

