

**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 10, 2012

**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
April 2012 Monthly Restoration Report

Dear Mr. Linder:

Please find enclosed the April 2012 Monthly Restoration Reports for Mine Units 2, 3, 4, 5 and 6. The reverse osmosis (RO) units continue to inject permeate and reductant into Mine Units 2, 3, 4, and 5. IX treatment continued in Mine Unit 6.

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: Lindsey Phillips, NDEQ Chadron Office
Ron Burrows, NRC
CBO File
ec: CR - Cheyenne

CROW BUTTE MINE
MONTHLY RESTORATION REPORT

APRIL 2012

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 and Reductant CM2-4, PR15, P97, I113, 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, I180P, I188P, and P209.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 APRIL 2012
 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 CM1-11, IJ13P, P228, I298P, RES1E, RES2E, and RES3E. |
| 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:

CM1-11, I298P, RES1E, RES2E, and RES3E.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 APRIL 2012
 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 | | RO and Reductant P371, P430, P434, P437, P438, and P456. |
| d. Wellfield Recirculation | | X | |
| e. Other (explain): | | | |

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:

P371, P430, and P437.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 APRIL 2012
 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 | | RO and Reductant I676P, P707, P709, P773, P790, P800, and I854P. |
| 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:

I676P, P707, P709, P773, P790, P800, and I854P.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 APRIL 2012
 MINE UNIT 6

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 P1268, P1283, P1312, P1314, P1322, P1348, P1370, P1454, P1497, P1530, P1531, P1532, P1559, P1588, P1596, P1612, P1633, P1658, P1703, P1704, P1710, P1712, P1715, P1733, P1751, P1756, P1778, P1779, P1800, P1857, P1862, P1902, and P1908. |
| d. Wellfield Recirculation | | X | |
| e. Other (explain): | | X | |

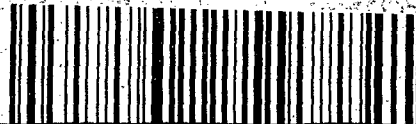
2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

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

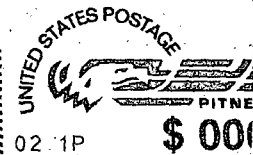
4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P1268, P1283, P1312, P1314, P1322, P1348, P1370, P1454, P1497, P1530, P1531, P1532,
 P1559, P1588, P1596, P1612, P1633, P1658, P1703, P1704, P1710, P1712, P1715, P1733,
 P1751, P1756, P1778, P1779, P1800, P1857, P1862, P1902, and P1908.

CERTIFIED MAIL

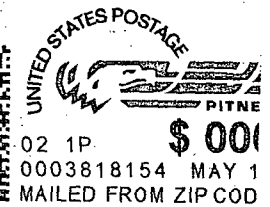


U.S. GOVERNMENT PRINTING OFFICE: 2011-368-983



| | | | | | |
|--|------------------|---|------|---|----------------|
| NRC FORM 253 (9-96) | | U.S. NUCLEAR REGULATORY COMMISSION | | DATE OF REQUEST | CONTROL NUMBER |
| MESSENGER/COURIER RECEIPT | | | | 5-22-12 | |
| TO: | Ron Burrows | OFFICE | FSME | BUILDING | TWEN |
| | | | | ROOM NUMBER | 8F5 |
| FROM: | Cameco Resources | OFFICE | ADM | BUILDING | OWFN |
| | | | | ROOM NUMBER | P1-C10 |
| DESCRIPTION USPS Certified envelope 7010-0780-0000-1422-1106 | | MESSENGER/COURIER SIGNATURE | | | |
| | | MESSENGER/COURIER | | DATE RECEIVED | |
| | | M & C | | 5-22 | |
| | | | | TIME RECEIVED | |
| | | | | 8 am | |
| | | MESSENGER/COURIER | | DATE RECEIVED | |
| | | | | TIME RECEIVED | |
| | | RECIPIENT'S SIGNATURE | | | |
| | | RECIPIENT | | DATE RECEIVED | |
| | | [Signature] | | 5/22/12 | |
| | | | | TIME RECEIVED | |
| | | | | 8:45 | |
| SENDER: | | MESSENGER/COURIER: | | RECIPIENT: | |
| <ol style="list-style-type: none"> Complete "DATE OF REQUEST," "TO:," "FROM:," and unclassified "DESCRIPTION" blocks. Obtain MESSENGER/COURIER signature, date received, and time received in first blocks provided. Retain "SENDER'S SUSPENSE COPY." | | <ol style="list-style-type: none"> Deliver package to recipient or next messenger/courier enroute to addressee. Obtain MESSENGER/COURIER or RECIPIENT signature, date received, and time received in the appropriate blocks provided. | | <ol style="list-style-type: none"> Provide signature, date received, and time received in the appropriate blocks. Retain RECIPIENT'S COPY. Return original to messenger/courier immediately, who will return it to the sender. | |

NRC FORM 253 (9-96)



MESSENGER/COURIER COPY