CAMECO RESOURCES CROW BUTTE OPERATION



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January 22, 2019

USPS PRIORITY MAIL SIGNATURE CONFIRMATION

Marty Link, Water Quality Division Administrator Nebraska Department of Environmental Quality P.O. Box 98922 Lincoln, NE 68509-8922

Class III UIC Permit NE0122611 December 2018 Monthly Restoration Report

Dear Ms. Link:

Please find enclosed the December 2018 Monthly Restoration Reports for Mine Units 2, 3, 4, 5, 6 and 7. The reverse osmosis (RO) units continue to inject permeate and reductant into Mine Unit 6 as well as Mine Unit 7. Guideline 8 samples were collected from baseline restoration wells in Mine Units 3, 4, and 5 to continue with stability monitoring in those Mine Units.

Mine Unit 2 remained in stability monitoring.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 117.

Sincerely, Cameco Resources Crow Butte Operation

Walter D. Nelson SHEQ Coordinator

Enclosures:

As Stated

cc:

----- NDO

Ron Burrows - NRC

CBO - File

ec:

CR - Electronic File

Kory Winters - NDEQ Field Office

Amanda Jones - NDEQ Program Coordinator

MONTHLY RESTORATION REPORT

December 2018

MINE UNIT 2						
1. RESTORATION ACTIVITY DURING MONT	H:					
	YES	NO				
a. Groundwater Transfer		X	(if yes, complete part 2)			
b. Groundwater Sweep		X	(if yes, complete part 3)			
c. Groundwater Treatment		X				
d. Wellfield Recirculation		X				
e. Other (explain):	X		The Mine Unit is in Stability Monitoring.			
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 A	AND AS	SAY RE	ESULTS:			
No wells were sampled during the month.						

MONTHLY RESTORATION REPORT

December 2018

MINE UN	IIT 3		
1. RESTORATION ACTIVITY DURING MON	ГН:		
	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment		X	
d. Wellfield Recirculation		X	
e. Other (explain):	X		G-8 samples collected from baseline restoration wells in December.
2. LIST WELLS USED IN GROUNDWATER TO	RANSFE	R DURI	NG THE MONTH:
	·		
3. LIST WELLS USED IN GROUNDWATER SV	WEEP DU	JRING '	THE MONTH:
4. LIST WELLS SAMPLED DURING MONTH	AND ASS	SAY RE	SULTS:
No in-house samples were collected during the mo	nth.	·	

MONTHLY RESTORATION REPORT

December 2018

MINE UNIT 4

MINE UN	11 4		
1. RESTORATION ACTIVITY DURING MONT	TH:		
	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X.	(if yes, complete part 3)
c. Groundwater Treatment		X	,
d. Wellfield Recirculation		X	
e. Other (explain):	Х		G-8 samples collected from baseline restoration wells in December.
2. LIST WELLS USED IN GROUNDWATER TI	RANSFE	R DUR	NG THE MONTH:
	500 / L		
3. LIST WELLS USED IN GROUNDWATER SY	WEEP DI	JRING	THE MONTH:
4. LIST WELLS SAMPLED DURING MONTH	AND AS	SAY RI	ESULTS:
No in-house samples were collected during the mo	nth.	 	and gifted the second and the second

MONTHLY RESTORATION REPORT

December 2018

MINE UNIT 5

1.	RESTORA	ATION	ACTIV	TTY	DURING N	HTMON
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	YES	NO	
a. Groundwater Transfer		Х	(if yes, complete part 2)
b. Groundwater Sweep	X		(if yes, complete part 3)
c. Groundwater Treatment		Х	
d. Wellfield Recirculation		X	
e. Other (explain):	Х		G-8 samples collected from baseline restoration wells in December.

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

P1002

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

No in-house samples were collected during the month.

MONTHLY RESTORATION REPORT

December 2018

MINE UNIT 6

1	RESTOR	ATION	ACTIVITY	DIMMIC	MANTE.
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	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 and RO P1265, I1267P, I1272P, I1285P, P1314, P1315, P1337, I1356P, P1377, P1402, P1428, P1494, P1612, P1625, P1628, P1676, P1690, P1706, P1800.
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:

P1273, P1461, P1569.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

No in-house samples were collected during the month.

MONTHLY RESTORATION REPORT

December 2018

MINE UNIT 7

1. RESTORATION ACTIVITY DURING MO	ONTH:	 	,
	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 and RO BL-17, P1957, P1972, P1986, P2014, P2035, P2038, P2040, P2108, P2188, P2219, P2241, P2264, P2303, P2316, P2340, P2359, P2361, P2384, P2395, P2399, P2401, I2429P, P2476, P2510, P2523, P2588, P2601, P2610, P2612, P2614, P2642, P2660.
d. Wellfield Recirculation		X	
e. Other (explain):		X	
2. LIST WELLS USED IN GROUNDWATE 3. LIST WELLS USED IN GROUNDWATE			
4. LIST WELLS SAMPLED DURING MON No in-house samples were collected during the		SAY RI	ESULTS: