

**From:** [Larry Teahon](#)  
**To:** [Lancaster, Thomas](#)  
**Cc:** [Robert Tiensvold](#)  
**Subject:** [External\_Sender] RE: Draft Marsland License Condition  
**Date:** Monday, October 30, 2017 10:14:04 AM  
**Attachments:** [image002.png](#)

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Tom:

CBO has reviewed the proposed license condition and offer the following:

1. Will the baseline for monitoring be the 2011 water level or the water level the first day of operation?
2. Based upon the model, it is predicted that the maximum cumulative drawdown in MU8 and MU9 is 30-60 feet depending on the operations at Three Crow and Crow Butte. However, drawdown does exceed 10 feet per year in these wells during a few peak operating years.
3. CBO would like further clarification of the mean of "cumulative moving average of water level drawdown rates".
4. Also, CBO would propose semi-annual water level measurements (spring and fall) versus quarterly measurements.

Regards,

Larry

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**From:** Lancaster, Thomas [mailto:Thomas.Lancaster@nrc.gov]  
**Sent:** Tuesday, October 24, 2017 1:05 PM  
**To:** Larry Teahon <Larry\_Teahon@cameco.com>  
**Subject:** Draft Marsland License Condition

Larry,

Below is a draft MEA license condition for your review. Please let me know at your earliest convenience if the language is acceptable.

*To ensure that the basal sandstone of the Chadron Formation remains saturated, the licensee will monitor water levels quarterly in dedicated, existing MEA monitoring wells 8 and 9 in addition to two monitoring wells in the basal sandstone of the Chadron Formation to be located in NW ¼ of SW ¼ and NW ¼ of SE ¼, respectively, of Section 26, T30N, R51W. If the cumulative moving average of water level drawdown rates measured in these wells (relative to a February 22, 2011 water level elevation of 3709.0 ft above mean sea level) at any time exceeds 10 ft/yr, or if the cumulative total drawdown in these wells relative to a water level elevation of 3709.0 ft at any time exceeds 170 ft, a corrective action plan to achieve compliance with these limits will be developed by the licensee and submitted to the NRC within 30 days for review and approval. The licensee shall submit yearly reports to NRC documenting quarterly water level data from MEA wells MW8 and MW9 and presenting calculations of cumulative total water level drawdown and cumulative moving average of drawdown rates for the complete period of record. As part of the yearly report, the licensee shall also submit a written assessment of the drawdown in the basal*

*sandstone of the Chadron Formation based upon the current operation of the mine and drawdown projections.*

Regards,

*Tom Lancaster*

Crow Butte Resources, Masland Satellite PM



U.S. Nuclear Regulatory Commission

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