

**From:** [Lancaster, Thomas](#)  
**To:** [Larry Teahon](#)  
**Subject:** RE: MEA  
**Date:** Wednesday, April 13, 2016 12:54:00 PM

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Thank you for following up on the clarification of this open issue.

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**From:** Larry Teahon [mailto:Larry\_Teahon@cameco.com]  
**Sent:** Wednesday, April 13, 2016 11:34 AM  
**To:** Lancaster, Thomas <Thomas.Lancaster@nrc.gov>  
**Cc:** 'Bob Lewis' <blewis@aquifertek.com>; Sabrina Fox <Sabrina\_Fox@cameco.com>  
**Subject:** [External\_Sender] MEA

Tom:

Based upon our conversation this morning this is our interpretation of David's request:

Conduct a cumulative drawdown impact assessment for the Basal Chadron Sandstone aquifer at the MEA including drawdown impacts from MEA, CBO and TCEA. The assessment will use the projected consumptive use at each facility, and actual consumptive use estimates for the CBO facility prior to 2016. The assessment will be performed using a Theis analytical solution for confined aquifers and the principal of superposition for cumulative drawdown impacts. The assessment will include drawdown impacts over the period 2011 to approximately 2052, corresponding to the historical groundwater monitoring period at the MEA, facility operations, and 10 years beyond last consumptive use at MEA and TCEA to include the aquifer recovery period. Hydrographs depicting projected drawdown over time will be produced at selected locations within and around the MEA including the MEA ISR wellfields, existing MEA Basal Chadron monitoring wells (Monitor 1 thru Monitor 11), and at a 2.25 mile radius from the MEA facility. Drawdown contour maps will be provided illustrating the cumulative drawdown impacts at the MEA for the period of maximum cumulative drawdown.

In addition to the cumulative drawdown impact assessment described above, drawdown impacts resulting solely from MEA operations will be evaluated as part of this work. Hydrographs and drawdown contour maps will be prepared illustrating projected drawdown in the Basal Chadron aquifer due to MEA operations.

Regards,

**Larry Teahon**  
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