

July 13, 2015

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Technical Review Section
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The following questions were raised by CWS regarding the Technical Review Application submitted on behalf of Rising Hope Dairy.

1. Conflicting information about the size of the operation has been found during CWS file review. Please provide clarification as to the current size of the operation (livestock head and animal units).
2. The manure production rate used in the site assessment is less than the manure production rate used to size the capacity of the manure storage facility constructed in 2013. Clarification regarding the change in the manure production rate and the impact on the capacity of the facility is requested.
3. Clarification is request for the number of animals (capacity) indicated in the Manure Production Calculator. The Animal Unit Calculator indicates 600 head, however, the Manure Production Calculator indicates 850 head.

Responses to the above points are below:

- 1) Alvin Plett has confirmed the existing size of the Rising Hope operation as 225 mature animals and 225 associated livestock by email. See attached email.
- 2) Manure from the milking cows as well as from 40 dry cows will be handled as a liquid and stored in the EMS. Manure from 60 dry cows as well as from the 500 yearling heifers and calves will be handled as a solid and placed in a field storage until land applied. Because approximately 1/3 of the manure production will be handled as a solid and will not be going into the EMS we can reduce the liquid manure production from the 4.4 cu ft/cow/day used in the EMS manure production calculation to roughly 2/3 of 4.4 or 2.95 cu ft/cow/day. By using the manure production figure of 3.5 cu ft/cow/day in your table we have somewhat overestimated liquid manure production but did so to provide a conservative estimate.
- 3) The manure production calculator breaks the total number of animals on site into milking cows, dry cows, yearling heifers and calves. This operation will be made up of 600 mature cows and associated livestock of which 500 milking cows and 40 dry cows will be housed on a liquid manure system. The remaining 60 dry cows will be on a solid manure handling system along with 250 yearling heifers and 250 calves. The manure production calculator has been changed slightly to include the young dairy calves housed on solid manure. In the manure production calculator except for the 60 dry cows, animals on dry manure are shown in the beef section as yearling heifers and as calves. These animals are not cows and should not be added to the cow numbers.

Please call me if you have additional questions. My phone number is (204) 268-3218.

Sincerely



Gary Plohman
Beausejour, Mb