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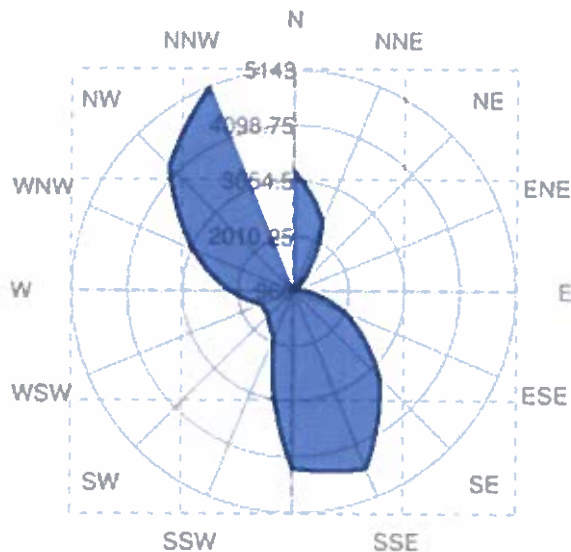
April 3, 2020

Community Planning
Manitoba Municipal Relations
600-800 Portage Av
Winnipeg, MB
R3G 0N4

**Re: Carey Colony Site Assessment
Response to Public Comments and Concerns**

The comments provided by both Ruth Brown and Rod Brown are primarily associated with concerns over odour production and the impact of these odours on themselves and their property values. It would appear from the information available that these residents are situated near Carey on the fringe of the 3.0 km radius from the proposed operation. Southwest winds would be anticipated to carry odours toward these residences and on occasion have an impact upon them. Other livestock operations in the region within similar setback distances exist and are anticipated to have similar impacts on these properties. Based on the wind direction distribution map as attached (Figure 1), the frequency of impact from the Carey Colony site is anticipated to be much less than other livestock operations that already exist in the area.

As there are a number of fields identified for manure application in close proximity to the community of Carey, first preference will be given to fields further distant from the community and where prevailing wind at the time of application will carry odours away from residences versus toward them. Management practices will be employed by Carey Colony to have the least impact on residents in the area as possible.



Direction	Number of Hours
N	3,243
NNE	2,399
NE	1,168
ENE	966
E	1,192
ESE	2,042
SE	3,280
SSE	4,602
S	4,326
SSW	1,925
SW	1,635
WSW	1,615
W	2,157
WNW	3,019
NW	4,287

Figure: 1 Wind direction distribution at Morris station

The principle cause for odour production are typically manure storages. Manure within these facilities is typically stored for a full year and then field applied in either the spring or fall. During the storage period this manure will become anaerobic producing H₂S and ammonia which will release naturally with wind and wave action and considerably more when the manure is agitated prior to field application. In the case of the proposed operation an earthen manure storage (EMS) already exists and although an expansion of the EMS would be required, the impact on odour production would not be anticipated to change dramatically. As manure application typically will occur during September and October, the increase in odour intensity during agitation is not anticipated to have an impact on the community of Carey as prevailing winds from the north to west will carry odours away from that direction.

Manure from the proposed poultry operations will be handled as a solid manure and consequently be field stored. Location of the fields upon which this manure is stored can be adjusted with consideration of prevailing winds and the impacts on adjacent land owners. Composting of this field stored material will further reduce the odour production anticipated from this manure source. Field application of this composted material would be preferable on the agricultural fields in close proximity to the community of Carey as odour production from fully composted material is virtually non-existent.

To clarify, Carey Colony is the sister colony of Suncrest Colony which originated from Crystal Spring Colony in 1969. Although there currently are no residences on site the intention is to have permanent residents on site shortly following the first phases of the development as per the proposal. The development of this site was started with the expectation that Suncrest Colony was going to need to divide much sooner, however slower growth than anticipated has only now brought this fruition.

I trust that the concerns of the neighbouring residents have been addressed, however members of the colony have also expressed that they are available for conversation and dialogue with respect to management of the operation to have the least impact on neighbours as possible.

Respectfully Submitted,

South-Man Engineering

Per, 

Peter Grieger, P. Eng.