

7 January 2016

Town of Caledon
6311 Old Church Road
Caledon, Ontario, Canada
L7C 1J6

Attn: Mr. Brandon Ward

Re: **Responses to Limebeer Pit Peer Review** dated August 21, 2015
Limebeer Pit Noise Impact Study dated April 25, 2014

Dear Mr. Ward,

Aercoustics Engineering Limited (Aercoustics) has reviewed the peer review letter prepared by Valcoustics Canada Ltd. (Valcoustics).

We submit the following itemized responses to Valcoustics' peer review comments. The numbering below aligns with the numbering used in the Valcoustics letter. Note that numbers that are missing represent items that did not require a response.

2. Aercoustics confirms the following:

- The off-road truck speed used was 30 km/hr;
- The upper storey of the dwellings was used as the point of reception;
- As described in Section 5 of the noise study, hard ground was used for extracted areas as well as the water surface of Green Lake; and
- Aercoustics has reviewed the berm heights on the Operational Plan and confirms that they meet the requirements of the noise report. The elevations represent continuous top of berm height, and the transition from 404 m to 406 m is shown correctly on the plans.

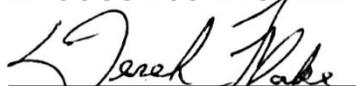
3. Aercoustics does not agree that this level of review is necessary to confirm conclusions of the study. The noise predictions can easily be duplicated given the information provided. Note that this operation only has two noise sources and the predicted levels are well below the MOECC limits of 50 dBA. If there is a concern

- that the sound level limits won't be met at a specific calculation scenario, please advise and more detail can be provided.
4. As per the Sequencing and Berm Duration detail on the Operational Plan, the Phase 2 berms are required prior to any extraction in Phase 2. The 100m setback recommendation of the noise study is no longer applicable.
 5. Aercoustics acknowledges the additional noise control recommendations and has the following comments:
 - As per Technical Recommendations General Note 1.2.27-A)-2) on the Operational Plan, the extraction shall be completed in a single lift to a pit floor elevation of 395 m a.s.l. or lower. A note will be added that states that the extraction loader shall operate at the pit floor;
 - Similarly to the extraction loaders described above, a note will be added that states that the off-road trucks shall operate at the pit floor;
 - Aercoustics agrees that sound pressure is a more practical method of describing sound emissions limits on the Operational Plan. The plans should be updated to show a sound pressure level of 75 dBA at a reference distance of 30 m for each of the extraction loader and the off-road trucks; and
 - Aercoustics agrees that this note, which was included in the body of the noise study, should be added to the recommendations on the Operation Plan as follows: *"The sound emissions of all construction equipment involved in site preparation, rehabilitation or other construction activities shall comply with the sound level limits specified in the MOECC publication NPC-115 "Construction Equipment"*.
 6. Aercoustics does not agree that a regular, periodic noise monitoring program is required for this site. There will be annual Public Liaison Committee meetings for this pit. This is described in the Operational Plan General Note #1. Lafarge also has a complaint response protocol.

Please do not hesitate to contact us if any further clarifications are required.

Yours Truly,

AERCOUSTICS ENGINEERING LIMITED


Derek Flake, M.Sc., P.Eng.


Bob Rimrott, M.A.Sc., P.Eng.