

Ministry of the Environment
and Climate Change

Ministère de l'Environnement et de
l'Action en matière de changement
climatique



Environmental Assessment and
Permissions Branch

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February 21, 2018

To: Neil Hannington
Issues Project Coordinator
Halton-Peel District Office

From: Header Merza
Senior Noise Engineer
Environmental Assessment and Permissions Branch

Re: **Noise Review Comments**
East Quarry
Aldershot Quarries
City of Burlington
Noise File No.: LU-0001-18

This office was requested to review the noise report titled "Detailed Environmental Noise Study" prepared by SS Wilson Associates, dated December 22, 2017 and signed by Hazem Gidamy, P.Eng.

The following are our noise comments on the December 22, 2017 noise report noted above:

1. Construction Noise Criteria: two limits were referenced in the noise report, namely an eight hour energy average equivalent sound level [Leq(8h)] of 60 dBA; and a maximum sound level (Lmax) of 65 dBA. The use of these noise limits are not endorsed by either the Ministry of the Environment and Climate Change (MOECC) or the City of Burlington.
2. City of Burlington Noise By-Law: reference was made to Item 8 in Schedule 2 of By-law No. 19-2003 where the operation of any construction equipment in connection with construction is prohibited from 9 p.m. to 7 a.m. (to 12 noon on Sundays). This time prohibition has been superseded by By-Law No. 49-2008. The new time prohibition is from 7 p.m. to 7 a.m. (All day Sunday and Statutory Holidays).
3. Noise Control Measures: operational and physical noise control measures were recommended for the control of construction noise. These measures should also include the operational limitations (e.g. the number of equipment used, location and orientation

of equipment, the duration of operation per 60 minutes period, etc.) and shielding features (e.g. stockpiles) used in the noise predictions for both construction noise and shale extraction noise.

4. Tables 1, 2 and 3: Cases 1 to 6 listed in the first column "Operation Case" are not referenced in the text section of the noise report. These cases should be explained in the noise report.
5. Figure 4: this figure shows the location of the existing berm. It should also show the location of the extended berm as well as the berm's lengths and heights.
6. Operational Hours of the East Quarry: the noise report should specify that the operational hours of the East Quarry are limited to the daytime hours from 7 a.m. to 7 p.m.
7. Depth of Overburden: two depths of overburden were reported, namely 2 metres and 4 metres below grade level. The correct overburden depth should be used in the noise predictions.
8. Foliage: the shielding effect of the trees on the intervening lands between the East Quarry and the houses on Westhaven Drive was used in the noise predictions. Since the trees are deciduous (i.e. not evergreen) and their area is going to be vastly diminished by the current undertaking, foliage shielding should not be used in the noise predictions as it would underestimate the East Quarry sound impacts at the houses on Westhaven Drive.
9. Cumulative Noise Assessment: the noise assessment addressed the East Quarry only. The noise assessment should also address the Central Quarry, the West Quarry and the Brick Plant as shown in Figure 1. These quarries and the brick plant are located on the same site, owned/operated by the same owner/operator and share materials/equipment.
10. Noise Monitoring: it is recommended that noise monitoring be carried out during Stages 1, 2 and 3 of the East Quarry in order to verify the predicted sound levels and the effectiveness of the proposed noise control measures.

We trust the above noise review would be of assistance to you.

If you have any questions, please contact Header Merza at (416)327-6575.



H. Merza, P.Eng.
Senior Noise Engineer



Ian Greason, P.Eng.
Director

appointed for the purposes of Part II.1 of the
Environmental Protection Act