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BTE File: 22-005

Stefano Ferrante
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Re: Noise Assessment for Proposed Residential Development on Brock Street in Perth, Ontario Revision 1

Dear Mr. Ferrante:

This letter is to provide a review of the ambient sound levels, including noise impacts from stationary sources from the 3M site, on the proposed residential development on Brock Street in Perth, Ontario. There is an existing principal mainline railway that is approximately 340 m from the proposed development, which is therefore beyond the limits of proximity to a noise sensitive land use.

BT Engineering Inc. recorded a stationary sound level reading at the end of the Rideau Christian Fellowship lot (see **Figure 1**). While a sound level reading at the proposed development site is preferred, sound levels at the current location are attenuated by the woodlot and would not be reflective of the final constructed conditions on site. As an alternative, BTE chose the Rideau Christian Fellowship lot, which is an adjacent lot with minimal noise attenuation features that would reflect more accurate sound levels of the stationary noise sources. The lot is approximately the same offset from the railway, County Road, and the 3M plant. The 1-hour sound level was recorded at 48.5 dBA (Leq).

Figure 1: Equivalent Sound Level Reading Location

This noise reading reflects the sound levels of the stationary source of the 3M plant.

A more comprehensive review of the site could include acoustical modelling including roadway noise, and railway noise sources to reflect the requirements of the Ministry of the Environment, Conservation and Parks Noise Guidelines (NPC-300). Since the sound level reading was taken during the daytime and traffic growth on County Road 43 is not expected to grow significantly, we conclude that the site will not exceed the MECP 55 dBA daytime sound level criteria. Therefore, the proposed development does not require any additional sound attenuation measures to address noise from neighbouring sources.

Should you require any further assistance with this project please do not hesitate to contact us.

Yours truly,

Steve Taylor, P.Eng., M.Eng., CVS-Life
President, BT Engineering Inc.