

April 1, 2022

Mr. Lou Frangian
2809354 Ontario Inc.
3047 Courtyard Crescent
Ottawa, ON, K1T 3R7

SLR Project No.: 241.30290.00000

Dear Mr. Frangian,

RE: 3996 Innes Road – City of Ottawa Environmental Noise Assessment Clarifications

SLR Consulting (Canada) Ltd. (SLR) undertook an Environmental Noise Assessment to support the Zoning Bylaw Amendment (ZBA) and Site Plan Application (SPA) for the proposed development at 3996 Innes Road, Orleans, Ottawa.

The approach and conclusions of the Environmental Noise Assessment were reported in the “211123 Env Noise Study – 241.30290 3996 Innes Road” report, issued November 23, 2021.

This letter provides clarification on queries that have been received from the City of Ottawa with respect to the Environmental Noise Assessment.

CLARIFICATIONS ON ENVIRONMENTAL NOISE ASSESSMENT APPROACH

The City of Ottawa provided the following comments after review of the environmental noise report:

“Environmental Noise Assessment, SLR Consulting (Canada) Ltd., dated 23 November 2021: The City’s Noise Guidelines identifies Stamson software as the acceptable noise prediction method. Please provide additional information concerning the Cadna/A software. Is this software accepted by the MTO? What model does it use? Please provide input/output data sheets for review. The amenity areas at grade should not exceed the OLA noise levels. Noise levels at the two amenity areas should be provided. Also, provide a scaled plan showing the distance and angles between the sources and receptors.”

Using CadnaA software is a widely used approach accepted by all municipalities that are familiar with its application. The statement in Section 2.4 of the SLR Environmental Noise Assessment report clarifies this,

“Road traffic sound levels at the proposed development were predicted using Cadna/A, a commercially available noise propagation modelling software. Roadways were modelled as line sources of sound, with sound emission rates calculated using the ORNAMENT algorithms, the road traffic noise model of the MECP. These predictions were validated and are equivalent to those made using the MECP’s ORNAMENT or STAMSON v5.04 road traffic noise models. STAMSON validation files are included in Appendix C.”

The distance and angles scaled drawing requested are inputs for the STAMSON/ORNAMENT. A validation for a single example calculation and proof of validity with associated files are provided in Appendix C of the Environmental Noise Assessment report. Undertaking this for all source to receiver calculations is not typically required. The modelling approach is accurate and widely accepted.

All input traffic data are provided in our report. The STAMSON inputs (angles of exposure and distances, etc.), are not applicable to the calculation methodology use. These inputs do not exist with the Cadna/A method. This information is generally not requested when using the Cadna/A software.

Regarding the outdoor sound levels, the applicable Outdoor Living Area (OLA) was assessed as per MECP guidelines. Conclusive text can be found in Section 2.4.2 of the Environmental Noise Assessment report. Sound levels at grade locations aren't usually calculated/presented, when private balconies and terraces are present. This text is replicated below for convenience.

"A private Outdoor Living Area (OLA) is also located on Level 5 of the development in the southern part of the building. The at grade outdoor amenity areas are considered to be publicly accessible spaces. Since these spaces are publicly accessible, they have not been included as amenity spaces in this assessment."

STATEMENT OF LIMITATIONS:

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Yours sincerely,
SLR Consulting (Canada) Ltd.

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