SOIL-MAT ENGINEERS & CONSULTANTS LTD.

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PROJECT NO.: SM 200098-G July 12, 2022

COLETARA DEVELOPMENT
966 Pantera Drive, Suite 22
Mississauga, Ontario
L4W 2S1

Attention: Mr. Michael Krasic, MREI, BBA
Senior Director of Development

SUPPLEMENTAL GEOTECHNICAL CONSIDERATIONS
PROPOSED MID-RISE RESIDENTIAL BUILDINGS
1010 DOWNSVIEW DRIVE AND 355 PLAINS ROAD EAST
BURLINGTON, ONTARIO

Dear Mr. Krasic,

Further to our recent discussions and email correspondence, Soil-Mat Engineers & Consultants Ltd. is pleased to provide the following updated Geotechnical Considerations for the above noted development. These comments are intended to address recent comments received from the City, and are further to our Geotechnical Considerations report [April 8, 2022] and referenced prior reports.

> "The submission included a letter entitled "Geotechnical Considerations" that outlined past work done in relation to a previous development proposal. The submission does not include the required Geotechnical Study or analysis of groundwater in relation to the current proposal"

Our prior site investigations included the advancement of several boreholes across the properties, and the installation of monitoring wells on the 355 Plains Road East property. This information provides a baseline of subsurface soil and groundwater conditions for the site, and our referenced report provided comments and recommendations with respect to how these conditions would affect the design and construction of the proposed development, including preliminary recommendations for design of foundations, excavations, etc.

Specifically, with respect to groundwater conditions our referenced report noted;

The static groundwater level is at approximately elevation 94.0 to 94.3 metres. Allowing for potential seasonal fluctuation, this may be as much as 94.5 to 94.8 metres. Two basement levels would extend as much as about 2 to 3 metres below the groundwater

level. As such it is recommended that the basement levels be designed to be fully water tight. This would eliminate the need for permanent dewatering systems, with continuous discharge to the municipal sewer system.

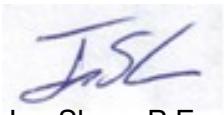
And the following with respect to excavation dewatering;

The rate of infiltration of groundwater through the permeable sand deposit above the clayey silt would be expected to be relatively high, and significant construction dewatering will be anticipated. This would be likely to exceed 400,000 L/day and thus require a Permit to Take Water. Further assessment will be required to establish the expected dewatering volumes, and support the PTTW application.

The present reports provides sufficient geotechnical information on the subsurface soil and groundwater conditions to support appropriate due diligence and decision making at this stage of the project. As the project moves forward it would be necessary to undertake additional investigations at that time to support the detailed design of foundations, construction dewatering, etc.

We trust that these brief comments are helpful at this time. Of course, do not hesitate to contact the undersigned should there be any questions.

Yours very truly,
SOIL-MAT ENGINEERS & CONSULTANTS LTD.



Ian Shaw, P.Eng., QP_{ESA}
Senior Engineer



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