patersongroup

memorandum

consulting engineers

re: Geotechnical Assessment – Limit of Hazard Lands

Proposed Development – Kennedy Lands

3432 Greenbank Road - Ottawa

to: Minto Communities – Mr. Curtiss Scarlett - CScarlett@minto.com

date: March 30, 2022 **file:** PG5348-MEMO.02

Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to provide a geotechnical review and recommendations for the limit of hazard lands setback requirements along Jock River, for the proposed development at the aforementioned site. The following memorandum should be read in conjunction with Paterson Report PG5348-1 R3 dated August 27, 2021.

Limit of Hazard Lands

Paterson was approached by Minto to address a comment raised by the City in relation to providing the limit of hazard lands setback on the site plan for the proposed development. Paterson was requested to assess the existing slope along Jock River, which borders the eastern and northern limits of the proposed development and extending.

Paterson Reviewed the following drawing as part of this assessment:

□ Project No. 20-1182 – Minto Kennedy Lands Jock River Constraints dated February 2022.

30m High Water Mark Setback

Based on our review of the aforementioned drawing, it is understood that the 30 m high water mark setback shown on the plan by Parish Geomorphic (2004) was found to be located outside the northern property limits, except for a small area at the very northwest corner of the site. In addition, the 30 m high water mark setback was observed to encroach into the site along the eastern property boundary.

Stable Slope Allowance

Based on the topographic mapping of the subject site, the existing slopes along the eastern and northern boundaries of the development are relatively shallow (5H:1V or shallower). Due to the shallow nature of these slopes, our field observations of the current slope conditions and subsurface profile encountered within the subject site, no stable slope allowance will be required for the subject slopes along the Jock River.

Mr. Curtiss Scarlett

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Limit of Hazard Lands

Since no stable slope allowance is required, the limit of hazard lands setback from the Jock River along the proposed development is recommended to be will not exceed 30 m. Based on the significant distance between the proposed development and the 30 m high water mark setback along the majority of the proposed site boundaries, and due to the shallow nature of the existing slope, a detailed slope stability analysis is not likely to provide a more stringent limit of hazard lands line than the 30 m high water mark setback. In this case, the 30 m high water mark setback will be the governing setback.

We trust that the current submission meets your immediate requirements.

Best Regards,

Paterson Group Inc.

Maha Saleh, P.Eng



Faisal I. Abou-Seido, P.Eng.