



April 12, 2018

Ontario Ministry of the Environment and Climate Change  
135 St. Clair Ave. West, 1<sup>st</sup> Floor  
Toronto, ON M4V 1P5

ATTENTION: Ms. Christina Labarge, Supervisor, Application Review Unit

Dear Ms. Labarge:

Re: Proposed KNL Development – Stage 9

This memo is to confirm that I have reviewed the modelling documentation for KNL Stage 9 as provided in the servicing report, *Design Brief KNL Stage 9 Kanata Lakes North*, dated March 2018. My review included the approach and methodology, as well as spot checks of the model to confirm the parameters applied are consistent with the current edition of the City of Ottawa guidelines. Based on my review, I have accepted the approach and conclusions as provided by IBI Group in the Design Brief. In my professional opinion, the post-development conditions as presented by IBI should not result in any significant impact within Kizell Creek (referred to as Kizell Drain in the Design Brief).

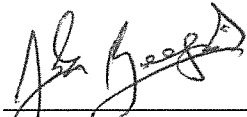
KNL Phase 9 will not result in an increase in the release rate from the Beaver Pond Stormwater Management Facility (SMF), as approved through the existing Certificate of Approval (Number 5190-7L6RRY). The Beaver Pond SMF and an oil and grit separator will provide an enhanced water quality treatment to the receiving Kizell Creek.

The increase in water levels during a 100-year rainfall event created by the development and by replacing undersized culverts upstream of March Road to alleviate an existing flood vulnerable area is not expected to exacerbate existing flooding problems along Kizell Creek. The total annual flow above the erosion threshold targets identified for the Kizell Creek are expected to increase by no more than 3% under post-development conditions. Significant erosion was not identified along the Kizell Creek in the geomorphology assessment undertaken by AECOM in the Shirley's Brooke and Watts Creek Phase 2 Study completed for the City in 2015.

My review confirms that only a slight increase in flows would be expected immediately upstream of the point where Kizell Creek becomes the Kizell Municipal Drain. Water levels in the Municipal Drain downstream of Herzberg Road would increase by a maximum of 2 cm during a 100-year rainfall event. Andy Robinson, P.Eng. has been

appointed under Section 78 of the Drainage Act to address concerns within the downstream Kizell Municipal Drain and ensure it can accommodate existing and approved flows from within the drainage area.

Yours truly,

A handwritten signature in black ink, appearing to read "John Bougadis", written over a horizontal line.

John Bougadis P.Eng,  
Senior Project Manager, Infrastructure Planning