

May 7, 2019

1623

Leah Lefler  
Environmental Planner  
Planning, Urban Design and Building Services  
Infrastructure, Development and Enterprise  
1 Carden Street  
Guelph, ON N1H 3A1

Dear: Ms. Lefler,

**RE: 300 Water Street, Guelph – Second EIS Addendum– Additional  
Hydrological Information**

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NRSI submitted an EIS for the 300 Water Street property in the City of Guelph in August 2017. Comments were received from you on April 30, 2018. These comments were addressed in a letter to the City on May 3, 2018. The submitted EIS, along with the responses to the City's comments, were presented to the Environmental Advisory Committee (EAC) on July 11, 2018. An EIS Addendum was submitted November 11, 2018 addressing all final comments from City staff, including Environmental Planning, Park Planning, EAC, and Parks and Recreation Public Services. This second EIS Addendum is to inform you of the additional groundwater and hydrograph work completed by GM BluePlan for the subject property. For additional information, refer to the Groundwater Level Monitoring Summary and the Revised Functional Servicing Letter completed by GM BluePlan (May 2, 2019).

In a response to the City of Guelph engineering comments, GM BluePlan has outlined that boreholes on the subject property encountered bedrock at varying depths; 3.86 metres below ground surface (mbgs) and 4.7mbgs, with 2 others not encountering bedrock, despite a drill depth of 5m. This indicates a bedrock surface of variable slope and potentially irregular flow patterns, which makes confirmation of flow directions difficult. Through interpretation of documented groundwater levels and bedrock depths throughout the subject property, GM BluePlan concluded that groundwater is likely to flow horizontally toward the northwest, which is consistent with the conceptual model given in Section 4 of the hydrogeological study report (GM BluePlan 2019). A northwest direction would indicate that generally groundwater is flowing toward the neighboring Village on the Green community, and is unlikely to affect the nearby natural communities. Nearby natural communities are 50m away to the west, and 175m away to the northwest, separated by Water Street and the Village on the Green, respectively.

A hydrograph has been provided to the City by GM BluePlan through a Groundwater Level Monitoring Summary, which indicated groundwater levels from spring 2017 to spring 2018, including seasonal highs, spring freshet and other storm and melt events.

NRSI has reviewed the above information and confirms that the impact analysis provided in the original EIS and EIS Addendum remain current and accurate.

Should you have any questions or comments regarding this information, please do not hesitate to contact the undersigned.

Sincerely,  
Natural Resource Solutions Inc.

A handwritten signature in black ink, appearing to read "Jeremy Bannon". The signature is written in a cursive, flowing style.

Jeremy Bannon  
Terrestrial & Wetland Biologist / Certified Arborist