

March 18, 2019

BEL 217408

Mr. Marco Vercillo
c/o Tyler Searls
Innovative Planning Solutions Inc.
150 Dunlop St. E.
Suite 201
Barrie, ON L4M 1B1

Re: Boundary Trees and Tree Protection Measures, 105 – 111 Edgehill Drive, City of Barrie.

Dear Mr. Vercillo:

Beacon Environmental Limited (Beacon) has been retained by 1980168 Ontario Inc. to undertake a Tree Inventory and Preservation Plan in support of a site plan application for the proposed condominium development of 105-111 Edgehill Drive, within the City of Barrie (“subject property”). This letter addresses comments from staff at the City of Barrie regarding the status of several trees as ‘boundary trees’ and tree protection measures for several trees in proximity to the proposed development. This letter should be considered an addendum to the Tree Inventory and Preservation Plan prepared by Beacon, dated June 2018.

Tree numbers 312 and 313 are located on the subject property along the western limit. An additional site visit was conducted on March 13, 2019 to further investigate if these two trees are boundary trees. A boundary tree is defined by the City of Barrie as:

“Any tree with its trunk straddling the property line between two properties from the start of the root mass to where the canopy starts. This referred to as the ‘bole’ of the tree.”

Based on additional field investigations, the base of both trees #312 and #313 are located wholly within the subject property. In addition, the bole of neither tree was found to cross or straddle the property limit (**Photograph 1** and **2**). The property survey confirmed that the wooden fence along the western boundary accurately represents the property limit. Therefore, neither of these trees should be considered a boundary tree.

Comments were also received from City staff regarding tree protection measures for three trees recommended for preservation due to their proximity to the proposed construction. Tree #310 is located on the neighbouring property to the west, approximately 0.5 m from the property limit (**Photograph 3**). The proposed building on the subject property is to be located 2.43 m from the property limit. Based on the tree’s dripline/crown radius, the recommended Tree Protection Zone (TPZ) for tree #310 is 2.5 m. The total distance from the base of tree #310 to the proposed building on the subject property is approximately 2.93 m. However, some site disturbance and excavation will be required within the tree’s

TPZ for constructing the building foundation. Similarly, trees #304 and #305 are boundary trees recommended for preservation, but some construction disturbance will be required within the trees' recommended TPZ's, which are 3 and 2 m, respectively.

The following tree protection measures are recommended during construction:

1. Prior to construction, a tree protection fence consisting of 1.2 m (4 ft) high paige wire fencing and metal T-bars will be installed around the tree and located at the limit of required excavation. The fencing shall be in accordance with the City's Tree Preservation Manual and Standards (BSD-1232).
2. No materials shall be stored inside or up against fencing, and a sign will be hung on the most visible side designating the TPZ.
3. Before commencing work, the contractor and Beacon Environmental will meet on site to review work procedures, access routes, storage areas and TPZ locations or other tree protection measures.
4. Within 48 hrs of commencement of excavation, the affected trees should be watered to minimize stress to the tree due to anticipated root loss.
5. Any exposed or damaged roots should be cut cleanly to the sound tissue and should be performed by a qualified arborist.
6. Exposed and pruned roots should be covered with native soil or wood mulch as soon as possible to avoid drying of roots.
7. Any injury to a tree during construction should be evaluated by a qualified arborist.
8. Following excavations and any root pruning, trees should be watered periodically, as needed, for the remaining growing season to minimize tree stress.
9. A qualified arborist should supervise excavation activities within tree TPZ's and a follow up monitoring inspection should be conducted to ensure tree protection measures are implemented and maintained.

It is anticipated that the degree of encroachment into these trees' TPZ will not significantly affect the trees, provided that the above tree protection measures are followed.

Further comments from City staff expressed concern regarding tree removals within the development area, especially in the southern portion. In this area, the trees are mostly either non-native species such as Manitoba Maple, White Poplar and Norway Spruce, or are early successional, short-lived species such as Balsam Poplar. Shrub cover in this area is predominantly non-native invasive species such as European Buckthorn and Tartarian Honeysuckle. Some of this tree cover may be compensated within the stream relocation area. Within the detailed landscape design and in conjunction with the detailed watercourse relocation design, there is an opportunity for planting on the slope portion of the bank to

the watercourse. A range of native tree species would be suitable in these locations including, but not limited to, Silver Maple (*Acer saccharinum*), Sugar Maple (*A. saccharum*), Hackberry (*Celtis occidentalis*), Bur Oak (*Quercus macrocarpa*), Red Oak (*Q. rubra*), Trembling Aspen (*Populus tremuloides*), and Eastern White Cedar (*Thuja occidentalis*).

I trust that this letter meets your needs. If you have any further questions or comments, please contact me at gpoisson@beaconenviro.com or at 705-645-1050 ext. 322.

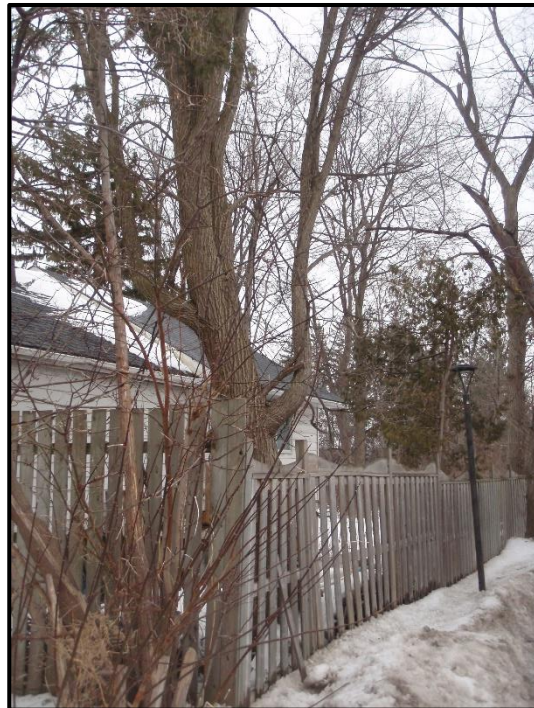
Prepared by:
Beacon Environmental



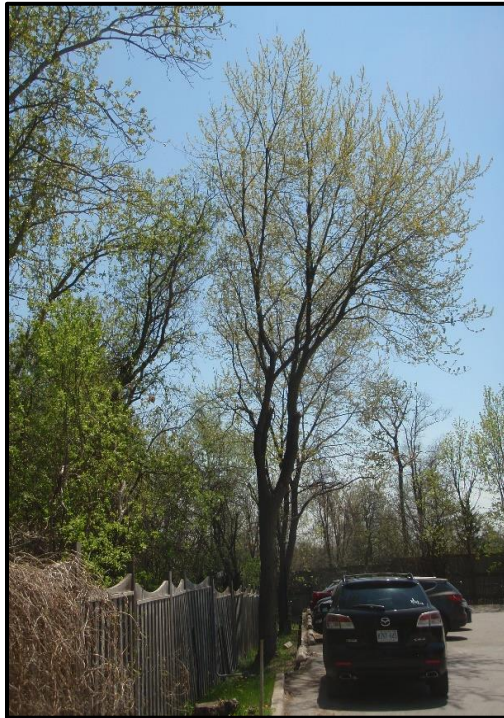
Geri Poisson, B.A. (Hon), CAN-CISEC
Terrestrial Ecologist, ISA-certified Arborist ON-1288A



Photograph 1. Tree No. 312 with no part of the bole crossing the property line/fence (Mar 13, 2019).



Photograph 2. Tree No. 313 with no part of the bole crossing the property line/fence (Mar 13, 2019).



Photograph 3. Tree No. 310 located approximately 0.5 m from the property line/fence (May 16, 2018).