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**Telephone**

(866) 217.7900

(705) 742.7900

**Facsimile**

(705) 742.7907

**Website**

cambium-inc.com

**Mailing Address**

P.O. Box 325,  
Peterborough, Ontario  
Canada, K9J 6Z3

**Locations**

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Kingston  
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Peterborough

 Professional Engineers  
Ontario

**APGO**

February 3, 2025

CAP Norwood Developments Inc.  
75 Valleyview Drive  
Ancaster, ON, L9G 2A6

Attn: Angelo Puglisi

Sent via email to: apug@cogeco.ca

**Re: Addendum Environmental Impact Study, Bat Exit Survey  
Memorandum – 52 Mill Street, Norwood, Ontario  
Cambium Reference: 14288-001**

Cambium Inc. (Cambium) was retained by CAP Norwood Developments Inc. (the Client) to complete an Environmental Impact Study (EIS; the Study) in support of the proposed Plan of Subdivision at 52 Mill Street in Norwood, Ontario. In response to peer review comments on the EIS dated June 6, 2024 (Stantec), an acoustic monitoring study for at-risk bats was completed, to determine if permits, approvals or authorizations were required under the Endangered Species Act, 2007 for the removal of the barn on the property at 52 Mill Street, Norwood, Ontario. The Study outlined below was carried out to assess the potential presence of provincially listed species at risk (SAR) bats and their habitats, which are afforded protection under the Endangered Species Act, 2007 (ESA).

## METHODOLOGIES

A two-night Bat Exit Survey was completed in June 2024, to assess bat occupancy of the barn on Site. A handheld Echo Meter Touch 2 device and a FLIR infrared camera were used during the bat exit surveys to identify any bat species that might be present during the exit survey. Four bat species were recorded exiting or entering the barn during the survey.

Table 1 below lists the number of passes recorded by the Echo Meter Touch 2 as incidental observations. Results indicate that the barn may be used for roosting.



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Following data processing, Cambium used the automatic species identification feature of the Wildlife Acoustics Kaleidoscope Pro Version 5.6.8 software package to analyze all ultrasonic recordings. The data was analyzed using the Auto ID for Bats of North America 5.4.0 Ontario feature, and the batch processing option. Auto ID feature settings were selected as follows:

- Bats of North America 5.4.0 (Ontario Region)
- Minimum to Maximum Frequency Range = 8-120 kHz
- Minimum and Maximum length of detected pulses = 2-500 ms
- Maximum inter-syllable gap = 500 ms
- Minimum number of pulse = 2

The Kaleidoscope Pro Auto ID feature assigns p-values to each group of species-assigned recording events. These p-values provide a measure of the likelihood that a specific bat species was present in the recording area. A p-value <0.05 indicates a high probability of species presence. A p-value >0.05 and <0.1 indicates a medium probability of species presence. According to the software developer/publisher, a p-value >0.1 is indicative of a false positive.

## DATA SUMMARY AND TRENDS

In total of 80 events (i.e., acoustic recordings) were documented on the Site during the monitoring period. Of these, 58 events (93.5%) were linked to specific bat species by the Auto ID feature. The remaining 4 events (6.5%) were not successfully linked to a specific bat species through automated data processing and were therefore not considered in our analyses.

Based on the positive Auto ID results, a total of four bat species were identified on the Site during the monitoring period. All four species identified are relatively common in Ontario, are not on the Species at Risk in Ontario List (O. Reg. 230/08) and are not afforded protection under the ESA (Big Brown Bat, Hoary Bat, Eastern Red Bat and Silver-haired Bat).

Table 1, attached, provides a summary of the 58 species-linked events documented through the Study. Of these events, 20 (34.5%) were identified as



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Big Brown Bat, 32 (55%) as Hoary Bat, 4 (7%) as Silver-haired Bat, and 2 (3.5%) as Eastern Red Bat. Overall, no acoustic events identified to species were associated with SAR that are afforded species and habitat protection under the ESA.

**Table 1 Bat Exit Monitoring Results Summary**

Station	Big Brown Bat	Eastern Red Bat	Hoary Bat	Silver-haired Bat	Eastern Small Footed Myotis	Little Brown Myotis	Northern Myotis	Tri-colored Bat	Bat Not Identified	Total
Exit Survey Night 1	5	1	12	4	0	0	0	0	1	23
Exit Survey Night 2	15	1	20	0	0	0	0	0	3	39
<b>Total</b>	<b>20</b>	<b>2</b>	<b>32</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>62</b>
<b>Total</b>	<b>20</b>	<b>2</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>

**Notes:** $p > 0.1$  $p < 0.05$  $p > 0.05 \text{ and } < 0.1$ 

Based on these results, bat activity on the Site appears to be dominated by Hoary Bat (not provincially listed). The next highest proportion of recordings was associated with Big Brown Bat (not provincially listed).

It is important to recognize that the number of events recorded for each species does not necessarily correlate with individual bat numbers. A single individual could pass by a given acoustic monitoring device multiple times in one evening, resulting in numerous “events”.

We recommend that barn demolition on the Site be undertaken outside of the active bat season, extending from April 1 to September 31 of any given year. If construction is planned to proceed during the active bat season, the area should be investigated for the presence of bats, by a qualified professional prior to Site alteration. A qualified professional should be on-site during demolition to monitor for any signs of bats. Any SAR discovered on the property will be left undisturbed as required by the ESA. If any individuals are encountered, demolition activities should cease until consultation MECP has occurred.



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Provided this window and monitoring recommendation are respected, the proposed development is not anticipated to impact at-risk bats. If possible, the barn demolition should occur during the earlier part of the avoidance window noted above.

We trust that this letter meets your needs at this time. If you have any questions or would like to discuss this letter's contents, please get in touch with Cambium.

Best regards,

**Cambium Inc.**

DocuSigned by:

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**Robin LeCraw, Ph.D**  
Senior Ecologist / Project Manager

*MW/rf*

*Encl. Cambium Qualifications and Limitations*

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