



Technical Memorandum

To: Celeste Phillips, Celeste Phillips Planning
Re: Nocturnal Bird Surveys – Cerqueira Property (Wendake Beach, Tiny Twp.)
From: Jim Broadfoot, Terrestrial Ecologist
Date: June 15, 2022

Nocturnal bird surveys were completed in June 2022 to evaluate the use of the property and adjacent lands by Eastern Whip-poor-will (threatened) and Common Nighthawk (special concern).

Methods

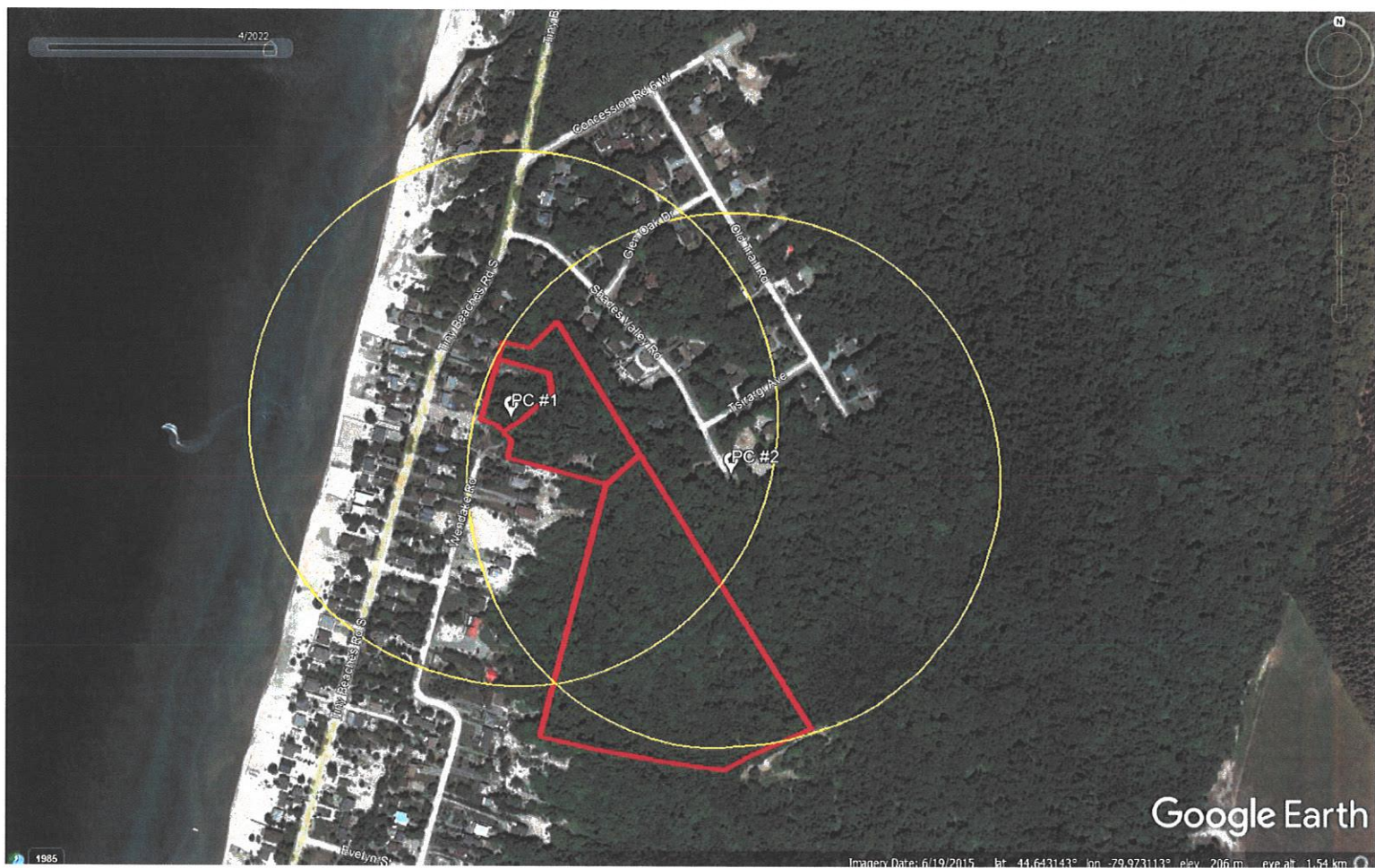
Surveys were completed from 2 Point Count (PC) stations established to sample areas of the property proposed for development plus lands within an approx. 300m radius following the general methods of the *Canadian Nightjar Survey Protocol 2019* (Bird Studies Canada, Canadian Wildlife Service, University of Alberta, University of Regina), *Survey Protocol for Eastern Whip-poor-will (Caprimulgus vociferus) in Ontario – 2013* (MNR SAR Branch) and *Guidelines for Completing Eastern Whip-poor-will Roadside Surveys in Ontario – 2014* (Bird Studies Canada). See attached figure for PC station locations.

Surveys were completed on the evenings of June 9 and June 13, 2022 within the June 8 to June 14 – *preferred timing* within the *Mid-season Window (optimal timing)* as defined by Bird Studies Canada for 2022 (Ontario Whip-poor-will Survey Windows - 2018-2024). Note: full moon on June 14, 2022. Point count survey duration per station was 6 minutes. Surveys began at least one half hour after sunset under conditions in the following table:

| | June 9, 2022 | | June 13, 2022 | |
|-----------------------|--------------|----------|---------------|----------|
| PC Station # | 1 | 2 | 1 | 2 |
| Start Time | 9:37p.m. | 9:58p.m. | 10:01p.m. | 9:45p.m. |
| Temp. C | +14 | +14 | +15 | +15 |
| Cloud Cover | 25% | 30% | 40% | 50% |
| Wind Speed (Beaufort) | B1 | B1 | B0 | B0 |
| Wind Direction | West | West | NA | NA |
| Moon Visible | Yes | Yes | Yes | No |
| Sunset Time | 9:02p.m. | | 9:04p.m. | |
| Moonrise Time | 3:21p.m. | | 8:40p.m. | |
| Observer | J. Broadfoot | | J. Broadfoot | |

**Results**

No Eastern Whip-poor-will or Common Nighthawk were detected on or adjacent to the property.



Nocturnal Bird Sampling 2022

PC # = Point Count Station #; Yellow Circles = 300m radius around Point Count Station

