

Scoped Environmental Impact Study (EIS) for 7085 Goreway Drive, City of Mississauga

PECG Project # 1602802

Prepared ForRedwood Properties



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Updated: March 8, 2023

Brian Ng Redwood Properties 330 New Huntington Road, Suite 201 Woodbridge, Ontario L4H 4C9

Dear Brian Ng:

Re: Scoped Environmental Impact Study (EIS) for 7085 Goreway Drive, City of

Mississauga

Project #: 1602802

Palmer is pleased to submit this updated scoped Environmental Impact Study (EIS) for 7085 Goreway Drive, City of Mississauga. This scoped EIS has been completed as part of a proposed re-zoning and an Official Plan Amendment to support the re-development of the subject property.

The findings of our study are the result of a background review, initial field investigation and an analysis of data using the current scientific understanding of the ecology of the area, as well as the current natural heritage policy requirements. From the work completed to date, which is proposed to be supplemented with further field investigations, we have identified the environmental sensitivities, constraints and development opportunities of the subject property. Based on the findings and recommendations of this study, it is our professional opinion that with the implementation of the mitigation measures as provided in this report, the proposed development plan is environmentally feasible.

Please let us know if you have question or comments on this submission.

Yours truly,



Austin Adams, M.Sc., EP

Senior Ecologist, Certified Arborist

austin adams



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1. Introduction

Palmer is pleased to submit this updated scoped Environmental Impact Study (EIS) for 7085 Goreway Drive, in the City of Mississauga (herein referred to as the "subject property") (**Figure 1**). This scoped EIS was completed as part of a proposed re-zoning and an Official Plan Amendment (OPA) to support the redevelopment of the subject property.

The subject property is currently occupied by a large commercial building and surrounded by a parking lot and is adjacent to a natural area that comprises Mimico Creek. A paved multi-use recreational trail on municipally owned lands called the Malton Greenway Park runs parallel to Mimico Creek, east of the subject property.

This scoped EIS is based on a natural heritage policy review, background data analysis and an initial field investigation. We proposed to supplement the scoped EIS with further field surveys and the preparation of an Addendum report to identify any further constraints, updates, and mitigation measures.

2. Environmental Policy

2.1 Migratory Birds Convention Act (1994)

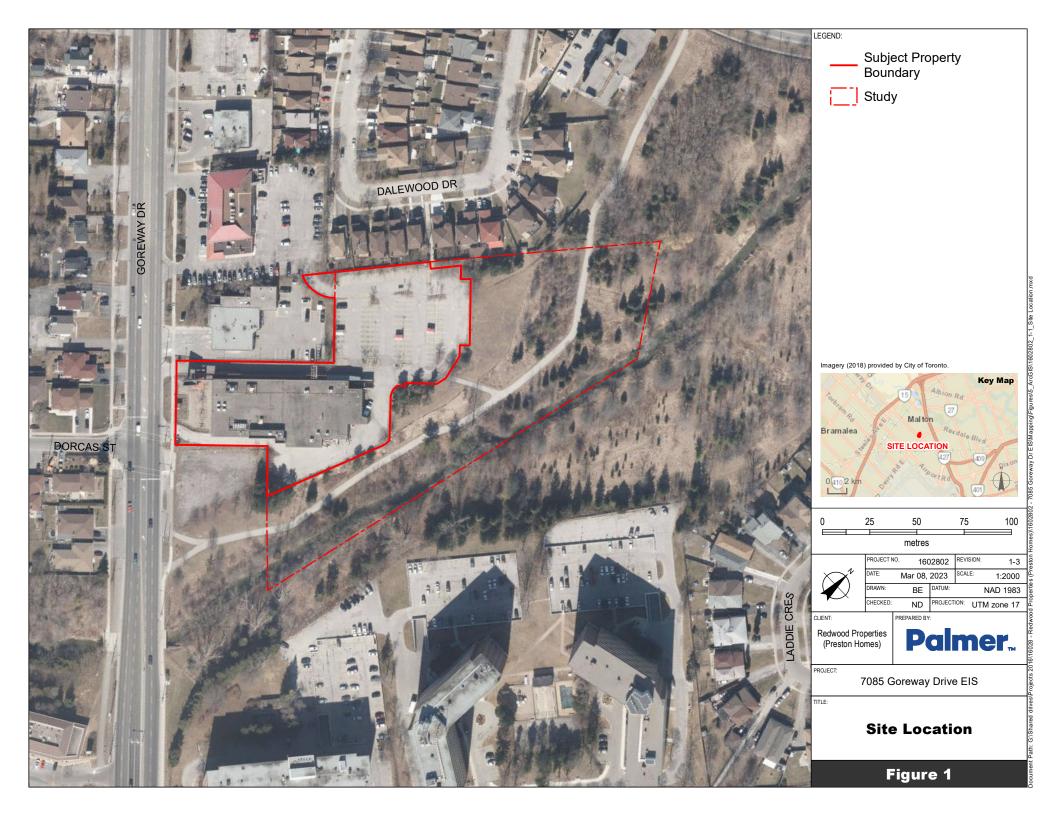
The *Migratory Birds Convention Act, MBCA* (1994) and Migratory Birds Regulations, MBR (2014) protect most species of migratory birds and their nests and eggs anywhere they are found in Canada. General prohibitions under the MBCA and MBR protect migratory birds, their nests and eggs and prohibit the deposit of harmful substances in waters / areas frequented by them. The MBR includes an additional prohibition against incidental take, which is the inadvertent harming or destruction of birds, nests or eggs.

Compliance with the MBCA and MBR is best achieved through a due diligence approach, which identifies potential risk, based on a site-specific analysis in consideration of the Avoidance Guidelines and Best Management Practices information on the Environment Canada website.

2.2 Endangered Species Act (2007)

Species designated as Endangered or Threatened by the Committee on the Status of Species at Risk in Ontario (COSSARO) are listed as Species at Risk in Ontario (SARO). These species at risk (SAR) and their habitats (e.g. areas essential for breeding, rearing, feeding, hibernation and migration) are afforded legal protection under the *Endangered Species Act* (ESA) (Government of Ontario, 2007).

The protection provisions for species and their habitat within the *ESA* apply only to those species listed as Endangered or Threatened on the SARO list, being Ontario Regulation 230/08 of the ESA. Species listed as Special Concern may be afforded protection through policy instruments respecting significant wildlife habitat (e.g. the PPS) as defined by the Province or other relevant authority, or other protections contained in Official Plan policies.





2.3 Provincial Policy Statement (2020)

The Provincial Policy Statement (PPS) provides direction to regional and local municipalities regarding planning policies for the protection and management of natural heritage features and resources. Section 2.1 of the PPS defines ten natural heritage features (NHF) and adjacent lands and provides planning policies for each. Of these NHF, development is not permitted in:

- Significant Coastal Wetlands;
- Significant Wetlands in Ecoregions 5E, 6E and 7E;
- Fish Habitat, except in accordance with provincial and federal requirements; or
- Habitat of species designated as Endangered and Threatened, except in accordance with provincial and federal requirements.

Additionally, unless it can be demonstrated through an EIS that there will be no negative impacts on the natural features or their ecological functions, development and site alteration are also not permitted in:

- Significant Wetlands in the Canadian Shield north of Ecoregions 5E, 6E and 7E;
- Significant Woodlands in Ecoregions 6E and 7E (excluding islands in Lake Huron and the St. Mary's River);
- Significant Valleylands in Ecoregions 6E and 7E (excluding islands in Lake Huron and the St. Mary's River);
- · Significant Wildlife Habitat;
- Significant Areas of Natural and Scientific Interest;
- Other Coastal Wetlands in Ecoregions 5E, 6E and 7E; and
- Lands defined as Adjacent Lands to all the above natural heritage features.

Each of these natural heritage features is afforded varying levels of protection subject to guidelines, and in some cases, regulations. The Subject Property is located in Ecoregion 7E.

2.4 Growth Plan for the Greater Golden Horseshoe (2017)

The Growth Plan for the Greater Golden Horseshoe (GGH) directs growth and the development to ensure economic prosperity, environmental protection and community support. This is intended to direct municipalities towards the establishment of appropriate policies to maintain, restore, or enhance biodiversity and connectivity of the system and long-term ecological function. The subject property is outside of the designated Natural Heritage System for the GGH.

The Growth Plan for the GGH was developed as a supplement to the PPS, and "builds upon the policy foundation provided by the PPS and provides additional and more specific land use planning policies to address issues facing specific geographic areas in Ontario. This Plan is to be read in conjunction with the PPS. The policies of this Plan take precedence over the policies of the PPS to the extent of any conflict, except where the relevant legislation provides otherwise."

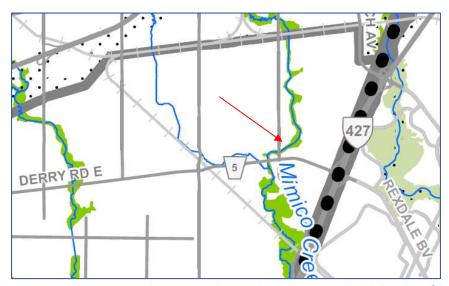


Schedule 2 of the Growth Plan depicts the subject property as located within the "Built-up Area – Conceptual", outside of the "Greenbelt Area". The Growth Plan has been adopted by the Peel Region's Official Plan OP which was updated in 2018.

2.5 Peel Region Official Plan (2018)

The Region's Official Plan (OP) was adopted by the Regional Council on July 11, 1996. The in-effect OP underwent office consolidation in 2018. Natural heritage features in Peel Region are protected by its Greenlands System, which consists of Core Areas, Natural Areas and Corridors, and Potential Natural Areas and Corridors. Core Areas are designated on Schedule A (Core Areas of the Greenlands System of Peel) of the Official Plan and are intended to represent the most important natural features in Peel, providing the best uninterrupted natural systems and highest biodiversity as identified through the OP. Natural Areas and Corridors and Potential Natural Areas and Corridors are to be identified and protected in lower tier municipal official plans in accordance with the policies outlined in the Peel Official Plan.

The subject property is adjacent to Core Areas of the Greenlands System (Map A).



Map A. Core Area in green present adjacent to the subject property (Peel Region OP, Schedule A).

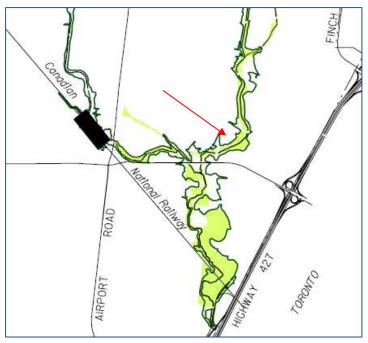
2.6 City of Mississauga Official Plan (2019)

The office consolidation of the City of Mississauga Official Plan has recently been updated which includes Ontario Municipal Board decisions and City Council approved Official Plan Amendments. As there are still outstanding appeals, the 2003 Mississauga OP remains partially in effect.

The City's Green System makes up about 23% of the land area of Mississauga and is comprised of the Natural Heritage System (NHS), Urban Forest, Natural Hazard Lands, and Parks and Open Spaces. The Official Plan, Section 6.3.8 states that: Buffers will be determined on a site-specific basis as part of an Environmental Impact Study or other similar study to the satisfaction of the City and appropriate conservation authority.



The subject property is adjacent to the City's Natural Heritage System designated as Significant Natural Areas and Natural Green Spaces as identified on Schedule 3 (**Map B**).



Map B. Natural Heritage System (outlined) and Significant Natural Areas and Natural Green Spaces (light green) (City of Mississauga, 2019 Official Plan, Schedule 3).

2.7 Toronto and Region Conservation Authority

Toronto and Region Conservation Authority (TRCA) regulations and policies include the following:

- Ontario Regulation 166/06 Development, Interference with Wetlands and Alterations to Shorelines and Watercourses. Through this regulation, the TRCA regulates activities in natural and hazardous areas (e.g., areas in and near rivers, streams, floodplains, wetlands, and slopes and shorelines)
- The Living City Policies (TRCA, 2014) and associated Planning and Development Procedural Manual (TRCA January 2008). These documents present the TRCA's planning and permit review practices and technical guidelines. Relevant policies will be discussed in applicable sections of this report.

The subject property is partially within the (TRCA regulated limit, thus a permit under O. Reg. 166/06 will be required (**Map C**)





Map C. TRCA Regulated Area (shaded orange) (TRCA Online Regulatory Search Tool).

3. Study Approach

3.1 Background Review

Palmer has reviewed relevant background material to provide a focus on field investigation and ensure compliance with applicable regulations and policy. Background information collection is guided by the *Natural Heritage Information Request Guide (MNRF*, 2018). Current direction from the Ministry of Natural Resources and Forestry (MNRF) and Ministry of Environment, Conservation and Parks (MECP) is to gather natural heritage information and species occurrence records from available sources; the Natural Heritage Information Centre (NHIC) Make Make-a-Map application being the main source of information and records from the Ministry itself (MNRF, 2020). Information gathered is recommended to be balanced and supplemented by a professional ecological review of potential habitats and characteristics of a project site.

Background review included the collection and review of relevant mapping and reports, including regulations and policies, Official Plans, and zoning by-laws; and the NHIC Make-a-Map application for species occurrences and designated area mapping. In addition to these sources, the following data sources were reviewed for the project:

- Land Information Ontario (LIO): certain data types including aquatic resource area (ARA) information is available through these publicly available data layers (Government of Ontario, 2020).
- **Conservation Authorities:** the TRCA collects and maintains natural heritage mapping and data, and publish reports, that all provide regional and often site-specific ecological context.
- Mimico Creek Watershed Report Card: The TRCA's watershed report cards provide a summary of the status of the subwatershed (TRCA, 2018).



- Natural Area Inventory (NAS): the NAS provides factsheets for the Natural Areas in the City of Mississauga (City of Mississauga, 2019).
- Ontario Breeding Birds Atlas (OBBA): Referenced Region 12, Square 17PJ14 for breeding birds records in the general vicinity (Bird Studies Canada, 2020).
- **eBird:** Searched bird sightings for general area on this website maintained by the Cornell Lab of Ornithology (Cornell Lab of Ornithology, 2020).
- Fisheries and Oceans Canada (DFO): The DFO maintains mapping of aquatic species at risk (SAR) habitats, including the critical habitat, occupied and contributing habitat ranges of SAR and Special Concern species (DFO, 2020).

Following the *Information Request Guide* (MNRF, 2018), MECP advice and direction should be solicited once Species at Risk (SAR) interactions or potential interactions are identified via field investigation and analysis.

3.2 Ecological Surveys

Ecological field surveys were conducted on May 12, June 2 and June 21, 2020. Ecological surveys included in field data collection for vegetation community, flora, general wildlife observations, an aquatic habitat assessment, and breeding bird surveys.

Vegetation Community and Flora

Vegetation communities were mapped and described following the Ecological Land Classification (ELC) System for Southern Ontario (Lee et al. 1998). Vegetation community boundaries were delineated on field maps through the interpretation of and recent aerial photographs and refined in the field. On May 12, 2020, Palmer conducted a flora inventory and ELC delineation. Botanical surveys were completed by traversing the site and recording species observed in each vegetation community. Local plant rarity status is based on *The Vascular Plant Flora of the Greater Toronto Area* (Varga et al. 2000) and TRCA's L-Rank (TRCA, 2019). Provincial plant status was based on the *Provincially Rare Flora of Ontario* (Oldham and Brinker 2009) and the S-Rank (OMNRF, 2018).

Incidental Wildlife Observations

Incidental observations of wildlife were recorded during field investigations. Incidental observations included direct sightings and indirect evidence such as nests, tracks, scat, and browse.

Aquatic Habitat Assessment

A brief aquatic habitat assessment was conducted for a reach of Mimico Creek located adjacent to the subject property. Data recorded in-field includes estimated channel size, substrate type, presence of bank undercuts and other observations that indicate the quality of the habitat such as entrenchment, erosion, degradation, riparian cover and shading, identification of in-stream barriers to fish passage.

Species at Risk

For the purposes of this report, SAR include species listed as Endangered, Threatened or Special Concern under Ontario's ESA. The protection provisions for species and their habitat within the ESA apply only to those species listed as Endangered or Threatened on the SARO list. Special Concern species may be afforded protection through policy instruments respecting significant wildlife habitat as defined by the Province or other relevant authority, or other protections contained in OP policies.



Prior to field work, existing SAR records were queried through the NHIC database. Habitat opportunities for SAR on the site were then assessed by comparing habitat preferences of species deemed to have potential to occur to current site conditions. The species noted during the NHIC search and others known through professional experience to have potential to occur in urban environments were considered in the assessment.

Breeding Bird Surveys

Two breeding bird surveys were conducted in general accordance with Ontario Breeding Bird Atlas protocols (Bird Studies Canada, 2001) at the site within the peak breeding season for most bird species. The first survey was conducted on June 2, 2020 and the second survey was conducted over a week later on June 21, 2020. The surveys were carried out between 05:00 and 10:00 h to coincide with the dawn chorus. The surveyor recorded all bird species seen and heard within and flying over the survey area on each site visit. The number, breeding evidence, and approximate location of each bird or bird group was recorded on the site map.

4. Existing Conditions

4.1 Site Description

The subject property is currently occupied by a large commercial building and surrounded by a parking lot and the study area for the scoped EIS included that adjacent municipal lands (**Figure 1**). The subject property is directly adjacent to a natural area that comprises Mimico Creek. A paved multi-use recreational trail called the Malton Greenway Park runs parallel to the Mimico Creek at the western edge of the subject property.

4.2 Physiography

The subject property is located within the Peel Plain physiographic region. This area is a relatively flat glaciolacustrine clay plain that extends across the York, Peel, and Halton Regions and is characterized as a level-to-undulating tract of clay soil. The region was influenced by the succession of changing levels of glacial Lake Peel, whose sediments occur throughout the lows in the till plain. The surface of this region therefore consists of lake sediments, or till. Some stream valleys are bordered by trains of sandy alluvium. Topography in this region generally varies between level and gently rolling, and gradually slopes towards Lake Ontario. (Chapman and Putman, 1984).

4.3 Environmental Designations

The subject property does not include provincially designated features such as significant woodland, wetlands, Area of Natural and Scientific Interest (ANSIs) or Environmentally Significant/Sensitive Areas (ESAs). The natural area located adjacent to the site is identified as a Significant Natural Area (MA1) as part of the NAS (City of Mississauga, 2019) (Map D).





Map D. Significant Natural Area (MA1) (City of Mississauga, 2019)

4.4 Vegetation Communities and Flora

Ecological Land Classification

The subject property is an anthropogenic area occupied by a large building, paved parking, planted trees and mowed lawn. The vegetated areas adjacent to the subject property are classified as a Cultural Woodland/Cultural Thicket in the NAS Natural Areas Fact Sheet (**Figure 2**).

Anthropogenic (ANTH)

The subject property is occupied by a large abandoned building surrounded by a paved roadway and parking lot (**Photo 1**). Planted Honey Locust (*Gleditsia triacanthos*) cultivars are growing in and around the parking lot. A few White Ash (*Fraxinus americana*) in poor condition are present along the western property boundary. Directly adjacent to the north and east side of the subject property is an open area with a mowed lawn, labelled as ANTH (mowed) on **Figure 2**. A small cluster of Scots Pine (*Pinus sylvestris*) with European Buckthorn (*Rhamnus cathartica*), and Garlic Mustard (*Alliaria petiolata*) is located directly northeast of the paved area. Manitoba Maple (*Acer negundo*) and Scots Pine are growing on the outside of the fenced property eastern property boundary.





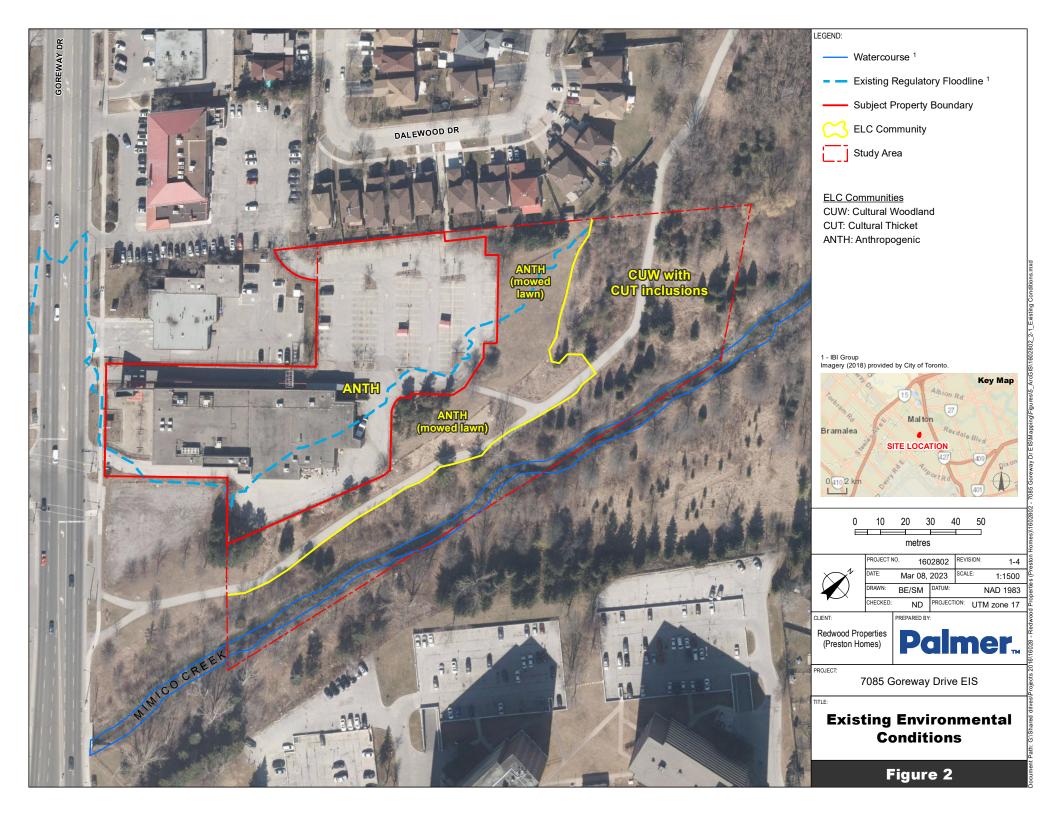
Photo 1. Anthropogenic (ANTH) area.

Cultural Woodland with Cultural Thicket inclusions (CUW with CUT inclusions)

This vegetation community is comprised of Cultural Woodland with Cultural Thicket inclusions (**Photo 2**). The canopy is dominated by White Pine (*Pinus strobus*), Manitoba Maple, and White Spruce (*Picea glauca*), providing 25 to 60% cover. The subcanopy contains Eastern White Cedar (*Thuja occidentalis*), and Scots Pine, providing 10 to 25% cover. The understorey comprises European Buckthorn, Staghorn Sumac (*Rhus typhina*), hawthorn (*Crataegus* sp.), and Tartarian Honeysuckle (*Lonicera tatarica*), proving 25 to 60% cover. The ground layer consists of cool season grasses, Garlic Mustard, and goldenrod (*Solidago* sp.), providing greater than 60% cover. Signs of cut down ash trees were observed (i.e., tree stumps) near the edge of the multi-use trail. This vegetation community is generally considered to be in poor condition. A cluster of dead pine trees is noted on the west side of the multi-use trail, north of the subject property.



Photo 2. Cultural Woodland (CUW) with Cultural Thicket (CUT) inclusions.





Flora

A total of 32 species of vascular plants was recorded within the study area during the May survey. As many as 17 (53%) species are native, 11 (34%) are non-native, and 4 (13%) species were only recorded to the genus level. Several highly invasive species were observed in the study area, including Tartarian Honeysuckle, European Buckthorn, and Garlic Mustard. Based on the single season survey there were no regional species of conservation concern (L1 to L3 ranks) other than White Spruce. All species recorded are common to Ontario (S rank), and no provincially or federally rare species was observed (**Appendix A**).

4.5 Incidental Wildlife Observations

Several bird species were observed during the field visit. Breeding Bird surveys are proposed to be completed during the 2020 breeding bird season to gain a better understanding of the species of birds that inhabit the general area and to identify if any uncommon or rare species are present adjacent to the subject property.

No sign of nesting habitat (e.g. barn swallow nest) and no signs of holes (e.g. bat entrance/exit holes) was noted in association with the existing building. The building is a flat-roofed brick building that does not provide the type of structure where bats could access a roof area for roosting.

Due to the urban environment, wildlife habitat opportunities within the study area are generally limited. The area of greatest wildlife habitat value is expected to be the Mimico Creek valleyland. Wildlife expected to be present consisting of common, generalist and urban-adapted species such as Raccoon (*Procyon lotor*), Skunk (*Mephitis mephitis*) and Grey Squirrel (*Sciurus carolinensis*).

4.6 Aquatic Habitat Assessment

Mimico Creek is a small subwatershed that is entirely urbanized with commercial and industrial development bounding an anthropogenically confined channel corridor (TRCA, 2018). The reach of Mimico Creek located east of the subject property is characterized as a meandering watercourse with riffle-runpool sequence (**Figure 2**). The substrate is largely comprised of sandy soils with segments of large stone creating riffles and runs. The channel is roughly 4 m wide. The channel banks show signs of undercutting, scour erosion, and exposure of large tree root systems. The flowing water is opaque. The watercourse has minimal herbaceous vegetation cover. Riparian trees and shrubs provide approx. 60% shade to the watercourse (**Photo 3**). No obstruction to fish passage was observed. No critical fish habitat is present within this segment of Mimico Creek (DFO, 2020).

Mimico Creek is managed as a warmwater watercourse (LIO, 2020). Numerous fish species have been recorded at TRCA's monitoring station MM004WM located approx. 600 m upstream of the study area, including Brook Stickleback (*Culaea inconstans*), Creek Chub (*Semotilus atromaculatus*), and Fathead Minnow (*Pimephales promelas*).





Photo 3. Mimico Creek

4.7 Breeding Bird Surveys

The survey documented the birds based on the following habitats and locations: (i) Anthropogenic - Parking Lot, (ii) Anthropogenic - Mowed Lawn, (iii) Cultural Woodland with Cultural Thicket inclusions, and (iv) flyovers and adjacent areas (**Figure 2**). A total of 18 bird species were documented on the property, as summarized in **Appendix B**. Most of the birds recorded on the subject property are considered common, widespread and abundant in the province of Ontario. The most frequently observed species found on the property included birds characteristic of urban and parkland areas, such as House Sparrow (*Passer domesticus*), Rock Pigeon (*Columba livia*), and American Goldfinch (*Cardeulis tristis*).

No Species at Risk (SAR) were recorded at the site and no area-sensitive bird species were recorded.

5. Assessment of Significance

5.1 Woodlands

The nearby Cultural Woodland with Cultural Thicket inclusions has a cover of 25 – 60% (Section 4.4), and as such would meet the City of Mississauga definitions of a Cultural Woodland. However, as this area is within 30 m of Mimico Creek, it would be considered a Significant Woodland under Section 6.3.12 of the Mississauga OP. Therefore, a 10 m setback has been established per TRCA policy (TRCA, 2014).

5.2 Fish Habitat

Mimico Creek has been determined to be a warmwater fish habitat watercourse (LIO, 2020). No critical fish habitat is present within this segment of Mimico Creek (DFO, 2020). As such, a 15 m setback has been applied from the standard channel width, as appropriate for warmwater streams where recorded fish have a low sensitivity to urban stresses (**Figure 3**) (Ontario Ministry of Natural Resources, 2010).



5.3 Valleylands

Significant Valleylands are determined in municipal policy as per the PPS. The Mimico Creek may be considered a Significant Valleyland as per the definitions of the City of Mississauga (City of Mississauga, 2019). In this instance, the limits in this area for the valleyland are set by the floodplain, which are in previously disturbed areas (**Figure 2**). As such, the means to address this floodplain are discussed in the Flood Hazard Assessment (Greck, 2022). This report addresses flood hazard limits that allow the proposed development to conform to flood hazard policies.

In terms of erosion hazard limits to define valleylands, these are discussed in the Hydrogeological Study for the project (Grounded, 2022). That report states that "the subject slope is present about 30 m south of the south property line. There is no identifiable slope crest, since this is an unconfined valley system. The gradual slope has a height of no more than 2 ±m and an inclination of flatter than 3H:1V in all locations. Mimico Creek is present greater than 15 m from the toe of slope". Further, "Based on the observations made on site and lack of erosion features, it is Grounded's opinion that the slope is stable in its current configuration and has a low potential for instability". Further details are provided in the Grounded report.

5.4 Species at Risk

Screening for potential Species at Risk (SAR) habitat was completed based on the background information review (MNRF, 2020; DFO, 2020; Bird Studies Canada, 2020; Cornell Lab of Ornithology, 2020) and data collected during field investigations (**Appendix C**).

Although the subject property provides limited habitat for SAR, several SAR birds may be present close to the subject property. Information obtained from background review sources such as OBBA indicates that the following SAR birds have been identified in the broader area: Common Nighthawk (*Chordeiles minor*), Eastern Wood-Pewee (*Contopus virens*), Wood Thrush (*Hylocichla mustelina*), Bobolink (*Dolichonyx oryzivorus*), Chimney Swift (*Chaetura pelagica*), Eastern Meadowlark (*Sturnella magna*). While habitat opportunities appear to be largely absent in lands adjacent to the property (e.g., interior forest, larger old field meadows), breeding bird surveys are proposed to be conducted in May and June 2020 to refine the records SAR birds that are present/absent within and directly adjacent to the subject property.

5.5 Significant Wildlife Habitat

Significant Wildlife Habitat (SWH) is considered a significant feature in Provincial, Regional, and Municipal (Town of Whitby) policies. SWH is defined by the MNRF in the Significant Wildlife Habitat Technical Guide (OMNR, 2000) and includes the following broad categories:

- seasonal concentration areas;
- rare vegetation communities or specialised habitats for wildlife;
- habitats of species of conservation concern, excluding the habitats of endangered and threatened species; and

animal movement corridors.



The criteria for the identification of these features are also provided in the *Significant Wildlife Habitat Criteria Schedules for Ecoregion 7E* (MNRF 2015). These criteria were used to provide a screening for wildlife habitat within the study area for potential SWH. In addition, the the Peel-Caledon Significant Woodlands and Significant Wildlife Habitat Study draft criteria were also reviewed (North-South Environmental Inc., Dougan & Associates and Sorensen Gravely Lowes, 2009). The results of the screening for SWH associated with subject property and adjacent natural area is provided in **Appendix D.** No SWH types were identified within or adjacent to the subject property.

6. Proposed Development Plan

The subject property is proposed to be fully re-developed with two high-rise residential towers and a complex of townhouses, and over three levels of underground parking (**Figure 3**).

To achieve the proposed development, the existing regulatory floodline which currently overlaps onto the subject property is proposed to be revised by re-grading the east and north portions of the subject property. This regrading is outside of natural heritage features that define the NHS, with the exception of valleylands, as defined by the floodline. The development setbacks to the floodline are proposed to be 6 m wide. Details and justification for valleylands including the proposed setback width are addressed by the Floodline Hazard Assessment prepared by Greck and Associates (2022).

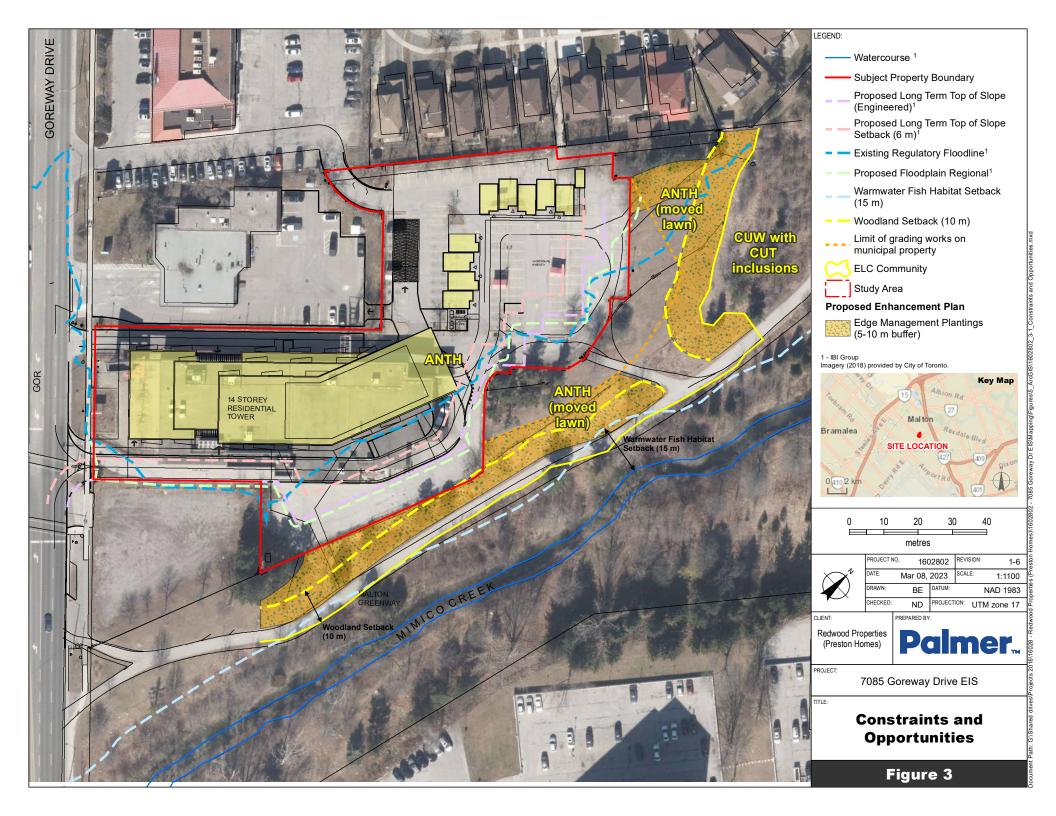
The grading works are proposed to extend into municipal land directly northeast of the subject property (**Figure 3**). Potential impacts associated with the proposed grading works and general site re-development works are provided in the section below.

The portions of the development plan zoned as Greenland Zone will be placed in public ownership as per the Zoning Bylaw Amendment application.

7. Impact Assessment and Mitigation Measures

The area of proposed disturbance is limited to the anthropogenic land currently occupied by the existing building, paved parking, or manicured lawn and isolated trees. The proposed works are not expected to result in the removal or the encroachment into the Cultural Woodland (CUW) with Cultural Thicket (CUT) inclusions vegetation community adjacent to the subject property. No works are expected to alter or impact the main multi-use trail system or interfere with Mimico Creek (**Figure 3**).

TRCA's Living policy document recommends a development setback for Valley and Stream Corridors (section 8.4.8.a). This matter is being addressed through a Floodline Hazard Assessment study prepared by Greck and Associates (Greck, 2022).





The portion of Cultural Woodland located north of the subject property, near the area of proposed grading on Municipal land, is proposed to be protected during grading works and enhanced with native buffer plantings following the completion of the construction works. Some minor disturbance to land directly east of the subject property is expected, thus the area between the existing trail and the subject property is also proposed to be enhanced with native buffer plantings. In general accordance with TRCA's Natural Systems policies (section 7.3.1.4) and the City's Green Systems policies (section 6.3.8), a 10 m buffer, where feasible, is proposed to be planted from the feature limit to protect the existing vegetation cover. A brief outline of the proposed Enhancement Plan is provided in the subsection below.

Erosion and Sediment Control Measures

Erosion and Sediment Control (ESC) measures should be installed and maintained during the period of construction works to delimit the area of construction works and protect adjacent natural features and their ecological functions. ESC measures are recommended to be installed at the limit of the proposed construction works following the best practices recommended in the *Erosion & Sediment Control Guideline* for Urban Construction per the Greater Golder Horseshoes Conservation Authorities (GGHA CAs), dated 2006.

Birds - Vegetation Removal and Building Design

Any vegetation removal required for construction works should be completed between mid-August and mid-April of any given year to avoid impacting migratory birds and their nests and eggs. Should vegetation removal be required outside of these periods, a qualified biologist must screen for potential nesting birds and identify any necessary mitigation and protection measures.

The project team is committed to providing bird friendly designs and glazing, to be incorporated into the building envelope and design at the detailed design and Site Plan Application stage. Bird-Friendly Design to be applied on the first 12 metres of elevation above grade, to be detailed at building permit stage, as per "Drawing A200 – South Elevation" for the project. No architectural uplighting proposed for this development.

Enhancement Plan

The proposed redevelopment of the subject property is expected to result in increase in the urban residential density and trail use. Although no impacts to natural heritage features such as the watercourse and Cultural Woodland are anticipated, the increased human use may result in further degradation of the adjacent natural features. The opportunity for restoration of the natural area adjacent to the subject property is proposed through the preparation of an Enhancement Plan. The purpose of the Enhancement Plan will be to protect the current vegetation community and improve the diversity of native plants and wildlife habitat through the implementation of Edge Management Plantings within a 5 to 10 m buffer to the adjacent natural features (**Figure 3**). Edge management plantings are expected to be provide a densely planted with native trees, shrubs and herbaceous species to provide edge protection to the natural feature. Planting details are proposed to be provided in the Addendum report.

General restoration of the natural vegetation is expected to improve the quality and quantity of the native vegetation near the creek as noted in Natural Areas Fact Sheet management recommendations (City of Mississauga, 2019) (Figure 3).



8. Policy Conformity

A summary of applicable natural heritage policies and the manner in which the proposed development plan meets their requirements is provided in **Table 1** below. As the valleyland limits are currently within developed areas, engineered limits and conformity are addressed in the project Flood Hazard Assessment (Greck, 2022) and the Hydrogeological Study for the project (Grounded, 2022) in terms of erosion hazards.

Table 1. Policy Conformity

Policy Document	Policy Intent/Objective	Implications and Policy Conformity
Migratory Birds Convention Act	Protect most species of migratory birds and their nests and eggs anywhere they are found in Canada.	Vegetation removal should be completed between mid-August and mid - April of any given year. Biologist to screen for nest for any proposed vegetation removal outside of this period.
Endangered Species Act	Species and the habitat of species designated as Endangered or Threatened are afforded legal protection.	Studies confirm that SAR are not present within or directly adjacent to the subject property.
Provincial Policy Statement	Direction to regional and local municipalities regarding planning policies for the protection and management of natural heritage features.	No development or site alteration is proposed within defined natural heritage features. As the valleyland limits are currently within developed areas, engineered limits are addressed in the project Flood Hazard Assessment (Greck, 2022).
Growth Plan	Directs growth and the development to ensure economic prosperity, environmental protection and community support.	The Subject Property is within the City's Settlement Area; the Growth Plan's natural feature protection buffer do not apply.
Region of Peel Official Plan	Core Areas: Development is generally prohibited within Core Areas.	No develop is proposed within Core Areas.
City of Mississauga Official Plan	The City's Green System is comprised of the NHS, Urban Forest, Natural Hazard Lands, and Parks and Open Spaces. Buffers are determined on a site-specific basis as part of the EIS.	A 5-10 m buffer to the portion of the natural feature north and east of the subject property is proposed to be enhanced with native plantings following the completion of nearby grading works. A minimum of 10 m is provided to the CUT treed area (regardless of significance), and >15 m separates the subject property from the Mimico Creek channel.
		As the valleyland limits are currently within developed areas, the engineered flood limits proposed for the project will provide greater flood controls than the existing conditions. This conforms to Policy 6.3.26 of the Official Plan, wherein development and site alteration can be considered for measures related to flood and/or erosion control. The erosion control and slope stability requirements of policies 6.3.47 and 6.3.48



Policy Document	Policy Intent/Objective	Implications and Policy Conformity
		the project Flood Hazard Assessment (Greck, 2022).
O. Reg. 166/06	TRCA regulates activities in natural and hazardous areas	The subject property is partially within the TRCA regulated area. A permit will be required.
Living City Policies	TRCA permit review practices and technical guidelines.	Relevant LCP policies and regulations are discussed and addressed, including Valley and Stream Corridors (addressed in Greck (2022)), and the general application of the Natural Systems policies such as the protection of the nearby woodland vegetation community and the implementation of a 5-10 m buffer with edge management plantings following grading works, with 10 m adjacent to treed areas. More than 15 m separates the subject property from the Mimico Creek channel (warmwater system).



9. Conclusions

The findings of this preliminary scoped EIS are the result of a background review, field investigations and an assessment of ecological data, as well as the current natural heritage policy requirements. We have identified the natural environmental sensitivities, constraints and development opportunities associated with the proposed development plan. Based on the findings and recommendations of this study, it is our professional opinion that with the implementation of the mitigation measures as provided in this report, the proposed development plan is environmentally feasible.

10. Certification

Approved By:

This report was prepared, reviewed and approved by the undersigned:

	Du
Prepared By:	
	Natalie Dunn, B.Sc., PG[ER]
	Ecologist, Certified Arborist
Prepared By:	Austin adams
	Austin Adams, M.Sc., EP]
	Sr. Ecologist, Certified Arborist
	Dir Janae

Dirk Janas, B.Sc. Principal, Ecologist



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Appendix A

Plant List



Appendix A

Plant List

		Nether	0 D I-	SARO	I Davids	Toronto	Vegetat	ion Communities
Scientific Name	Common Name	Native/ Exotic/ Unranked	S Rank (OMNR, 2018)	Status (OMNRF, 2018)	L-Ranks (TRCA, 2019)	Regional Rarity (Varga et al., 2000)	ANTH	CUT with CUW inclusions
Acer x freemanii	Freeman's Maple	N	SNA		L4	U?		Х
Acer negundo	Manitoba Maple	N	S5		L+?	+?	Х	Х
Alliaria petiolata	Garlic Mustard	Е	SNA		L+	+	Х	X
Amelanchier laevis	Smooth Serviceberry	N	S5		L4	U		Х
Arctium minus	Common Burdock	E	SNA		L+	+	Х	Х
Crataegus sp.	Hawthorn Species							Х
Daucus carota	Wild Carrot	Е	SNA		L+	+		X
Equisetum arvense	Field Horsetail	N	S5		L5	Х		Х
Fraxinus americana	White Ash	N	S4		L5	Х	Χ	
Galium mollugo	Smooth Bedstraw	Е	SNA		L+	+	Х	
Glechoma hederacea	Ground-ivy	Е	SNA		L+	+		X
Gleditsia triacanthos	Honey Locust	N	S2?		L+	+	Х	
Helianthus tuberosus	Jerusalem Artichoke	U	SU		L5	+?		Х
Juglans nigra	Black Walnut	N	S4?		L5	Х		Х
Ligustrum vulgare	European Privet	Е	SNA		L+	+	X	Х
Lonicera tatarica	Tatarian Honeysuckle	Е	SNA		L+	+	Х	Х
Picea abies	Norway Spruce	Е	SNA		L+	+p	Χ	
Picea glauca	White Spruce	N	S5		L3	+p		Х
Pinus strobus	Eastern White Pine	N	S5		L4	Х		X
Pinus sylvestris	Scots Pine	Е	SNA		L+	+	Х	Х
Poa sp.	Bluegrass Species						Х	X
Populus deltoides	Eastern Cottonwood	N	S5		L5			Х



		N. 41 4		SARO		Toronto	Vegetat	ion Communities
Scientific Name	Common Name	Native/ Exotic/ Unranked	S Rank (OMNR, 2018)	Status (OMNRF, 2018)	L-Ranks (TRCA, 2019)	Regional Rarity (Varga et al., 2000)	ANTH	CUT with CUW inclusions
Rhamnus cathartica	European Buckthorn	E	SNA		L+	+	Х	Х
Rhus typhina	Staghorn Sumac	N	S5		L5	Х		Х
Rubus idaeus	Red Raspberry	N	S5					X
Salix discolor	Pussy Willow	N	S5		L4	Х		X
Salix sp.	Willow Species							X
Solidago sp.	Goldenrod Species							Х
Thuja occidentalis	Eastern White Cedar	N	S5		L5	Х		X
Tilia americana	Basswood	N	S5		L5	Х		X
Toxicodendron radicans	Poison Ivy	N	S5				Х	X
Viburnum lentago	Nannyberry	N	S5		L5	Х	•	Х



Appendix B

Breeding Bird Inventory

Breeding Birds of 7085 Goreway Drive (2020)

	Octobrillo Name		Status						Locations				Observed on site visit	
Common Name	Scientific Name	Species at Risk in Ontario Listing a	Provincial breeding season SRANK ^b	TRCA Status	CVC status	Regional Status	Area-sensitive (OMNR)c	Breeding Code	1	2	3	4	2-Jun-20	21-Jun-20
Red-tailed Hawk	Buteo jamaicensis		S5	L5	yes			Х				✓		1
Ring-billed Gull	Larus delawarensis		S5	L4	yes			Χ				√	3	6
Rock Pigeon	Columba livia		SE	L+	yes			ΑE	✓			✓	6	12
Mourning Dove	Zenaida macroura		S5	L5	yes			Н		✓				1
Black-capped Chickadee	Poecile atricapillus		S5	L5	yes			S			✓		1	
House Wren	Troglodytes aedon		S5	L5	yes			S			✓		1	
American Robin	Turdus migratorius		S5	L5	yes			T	✓		✓		4	1
Gray Catbird	Dumetella carolinensis		S4	L4	yes			T			✓		2	2
Cedar Waxwing	Bombycilla cedrorum		S5	L5	yes			Р	✓					2
European Starling	Sturnus vulgaris		SE	L+	yes			T	✓		✓		6	3
Warbling Vireo	Vireo gilvus		S5	L5	yes			S			✓			1
Common Yellowthroat	Geothlypis trichas		S5	L4	yes			S			✓		1	
Northern Cardinal	Cardinalis cardinalis		S5	L5	yes			T			✓		1	1
Song Sparrow	Melospiza melodia		S5	L5	yes			T			✓		1	1
Red-winged Blackbird	Agelaius phoeniceus		S4	L5	yes			Χ				✓		1
Brown-headed Cowbird	Molothrus ater		S5	L5	yes			Р			✓			2
American Goldfinch	Cardeulis tristis		S5	L5	yes			S			✓	√	8	5
House Sparrow	Passer domesticus		SE	L+	yes			ΑE	✓		✓		13	18

Field Work Conducted On:	Date	Wind speed (km/h)	Cloud cover (%)	Start time	End time	Level of effort (h:min)	Number of species observed
Site visit 1	2-Jun-20	10	100	8:00	9:10	1h 10m	12
Site visit 2	21-Jun-20	11	0	8:20	8:50	30m	15

Location 1 Anthropogenic - Parking Lot Location 2 Anthropogenic - Mowed Lawn

Location 3 Cultural Woodland with Cultural Thicket inclusions

Location 4 Flyovers and adjacent areas

Number of Species:

Number of (provincial and national) Species at Risk: Number of S1 to S3 (provincially rare) Species: Number of Regionally Rare Species: Number of Area-sensitive Species:

Location 1

Number of Species:

Number of (provincial and national) Species at Risk:

Number of S1 to S3 (provincially rare) Species:

Number of Regionally Rare Species:

Number of Area-sensitive Species:

Location 2

Number of Species:

Number of (provincial and national) Species at Risk:

Number of S1 to S3 (provincially rare) Species:

Number of Regionally Rare Species:

Number of Area-sensitive Species:

Location 3

Number of Species:

Number of (provincial and national) Species at Risk:

Number of S1 to S3 (provincially rare) Species:

Number of Regionally Rare Species:

Number of Area-sensitive Species:

Location 4

Number of Species:

Number of (provincial and national) Species at Risk:

Number of S1 to S3 (provincially rare) Species:

Number of Regionally Rare Species:

Number of Area-sensitive Species:

KEY

a COSEWIC = Committee on the Status of Endangered Wildlife in Canada

a Species at Risk in Ontario List (as applies to ESA) as designated by COSSARO (Committee on the Status of Species at Risk in Ontario)

END = Endangered, THR = Threatened, SC = Special Concern

S1 (Critically Imperiled), S2 (Imperiled), S3 (Vulnerable), S4 (Apparently Secure), S5 (Secure)

SZB (breeding migrants or vagrants) and SR (reported as breeding, but no persuasive documentation) .

SE (exotic, i.e. non-native)

c Ontario Ministry of Natural Resources (OMNR), 2000. Significant Wildlife Habitat Technical Guide (Appendix G), 151 p plus appendices.

^b SRANK (from Natural Heritage Information Centre) for breeding status if:

d Toronto and Region Conservation Authority L rank:

L1 to L3 Regional species of concern from highest to lowest; L4 Urban concern; L5 Secure through region



Appendix C

Species at Risk Screening



Appendix C

Species at Risk Screening

NAME	SARO	COSEWIC	SCHEDULE	S-RANK	HABITAT REQUIREMENTS	SOURCE OF RECORD	POTENTIAL HABITAT PRESENT (Y/N)	RATIONALE	POTENTIAL IMPACTS AND MITIGATION
AVIFAUNA		I	I	T					
Bank Swallow (<i>Riparia riparia</i>)	THR	THR	1	S4B	The bank swallow is threatened by loss of breeding and foraging habitat, destruction of nesting habitat and widespread pesticide use. Bank swallows are small songbirds with brown upperparts, white underparts and a distinctive dark breast band. It averages 12 cm long and weighs between 10 and 18 grams. The swallow can be distinguished in flight from other swallows by its quick, erratic wing beats and its almost constant buzzy, chattering vocalizations. They nest in burrows in natural and human-made settings where there are vertical faces in silt and sand deposit, including banks of rivers and lakes, active sand and gravel pits or former ones where the banks remain suitable. The birds breed in colonies ranging from several to a few thousand pairs (Ministry of Natural Resources and Forestry, 2014).	ОВВА	N	No nests or nesting activity observed on eroded bank of the watercourse	None
Barn Swallow (<i>Hirundo rustica</i>)	THR	THR	1	S4B	The barn swallow is a threatened species, is found throughout southern Ontario, and can range into the north as long as suitable nesting locations can be found. These birds prefer to nest within human made structures such as barns, bridges, and culverts. Barn swallow nests are cup-shaped and made of mud; they are typically attached to horizontal beams or vertical walls underneath an overhang. A significant decline in populations of this species has been documented since the mid-1980s, which is thought to be related to a decline in prey. Since the barn swallow is an aerial insectivore, this species relies on the presence of flying insects at specific times during the year. Changes in building practices and materials may also be having an impact on this species (Ministry of Natural Resources and Forestry, 2015).	OBBA; eBird	N	No nests or nesting activity observed on existing building	None
Common Nighthawk (<i>Chordeiles</i> <i>minor</i>)	SC	THR	1	S4B	The common nighthawk is an extremely well camouflaged bird that inhabits gravel beaches, rock outcrops and burned woodlands, that have little to no ground vegetation. This species can also be found in highly disturbed locations such as clear cuts, mine tailings areas, cultivated fields, urban parks, gravel roads, and orchards. As an insectivore, the primary threat to this species is the widespread application of pesticides (Ministry of Natural Resources and Forestry, 2015). Special concern species do not receive habitat protection under the ESA.	ОВВА	To be determined	Pending breeding bird survey	To be determined
Eastern Wood- Pewee (Contopus virens)	SC	SC	1	S4B	The eastern wood-pewee is classified as a species of special concern by COSSARO. Their population has been gradually declining since the mid-1960's (The Cornell Lab of Ornithology, 2015). The eastern wood-pewee is a "flycatcher", a bird that eats flying insects, that lives in the mid-canopy layer of forest clearings and edges of deciduous and mixed forests. It prefers intermediate-age forest stands with little understory vegetation. Threats to the population are largely unknown; however, causes may include loss of habitat due to urban development and decreases in the availability of flying insect prey (Ministry of Natural Resources and Forestry, 2014).	OBBA; eBird	To be determined	Pending breeding bird survey	To be determined



NAME	SARO	COSEWIC	SCHEDULE	S-RANK	HABITAT REQUIREMENTS	SOURCE OF RECORD	POTENTIAL HABITAT PRESENT (Y/N)	RATIONALE	POTENTIAL IMPACTS AND MITIGATION
Wood Thrush (<i>Hylocichla</i> <i>mustelina</i>)	SC	THR	1	S4B	The wood thrush is a species of Special Concern because of habitat degradation or destruction by anthropogenic development. The wood thrush is a medium-sized songbird, generally rusty-brown on the upper parts with white under parts and large blackish spots on the breast and sides, and about 20 cm long. The wood thrush forages for food in leaf litter or on semi-bare ground, including larval and adult insects as well as plant material. They seek moist stands of trees with well-developed undergrowth in large mature deciduous and mixed (conifer-deciduous) forests. The wood thrush flies south to Mexico and Central America for the winter (Ministry of Natural Resources and Forestry, 2014).	ОВВА	To be determined	Pending breeding bird survey	To be determined
Bobolink (<i>Dolichonyx</i> oryzivorus)	THR	THR	1	S4B	The bobolink is found in grasslands and hayfields, and feeds and nests on the ground. This species is widely distributed across most of Ontario; however, are designated at risk because of rapid population decline over the last 50 years (Ministry of Natural Resources and Forestry, 2014). The historical habitat of the bobolink was tallgrass prairie and other natural open meadow communities; however, as a result of the clearing of native prairies and the post-colonial increase in agriculture, bobolinks are now widely found in hayfields. Due to their reproductive cycle, nesting habits, and use of agricultural areas, bobolink nests and young are particularly vulnerable to loss as a result of common agricultural practices (i.e. first cut hay).	ОВВА	To be determined	Pending breeding bird survey	To be determined
Chimney Swift (Chaetura pelagica)	THR	THR	1	S4B,S4N	The chimney swift is a threatened species which breeds in Ontario and winters in northwestern South America. It is found mostly near urban areas where the presence of chimneys or other manmade structures provide nesting and roosting habitat. Prior to settlement, the chimney swift would mainly nest in cave walls and hollow tress. The chimney swift initially benefitted from human settlement; however, recent declines in flying insects and the modernization of chimneys are factors attributed to their current population declines. As a threatened species, the chimney swift receives protection for both species and habitat under the ESA (Ministry of Natural Resources and Forestry, 2014).	OBBA; eBird	To be determined	Pending breeding bird survey	To be determined
Eastern Meadowlark (<i>Sturnella</i> <i>magna</i>)	THR	THR	1	S4B	The eastern meadowlark is a bird that prefers pastures and hayfields, but is also found to breed in orchards, shrubby fields and human use areas such as airports and roadsides. Eastern meadowlarks can nest from early May to mid-August, in nests that are built on the ground and well-camouflaged with a roof woven from grasses. The decline in population of these species is thought to be at least partially related to habitat destruction and agricultural practices (Ministry of Natural Resources and Forestry, 2014).	OBBA	To be determined	Pending breeding bird survey	To be determined
VASCULAR PLANTS									



NAME	SARO	COSEWIC	SCHEDULE	S-RANK	HABITAT REQUIREMENTS	SOURCE OF RECORD	POTENTIAL HABITAT PRESENT (Y/N)	RATIONALE	POTENTIAL IMPACTS AND MITIGATION
Butternut (<i>Juglans</i> <i>cinerea</i>)	END	END	1	S2?	The butternut is designated as endangered by COSSARO and is tracked by the NHIC as a species at risk. The tree is federally regulated by the Species at Risk Act (2002). Butternut belongs to the walnut family and produces edible nuts which are a preferred food source for wildlife. The range of butternut trees is south of the Canadian Shield on soils derived from calcium rich limestone bedrock. Butternut trees, which at one time were much more common to the south extending to the northern aspect of zone 6E, have been declining due to factors including forest loss and disease. Butternut trees suffer from a highly transmissible fungal disease called butternut canker. Butternut canker is causing very rapid decline in this tree species across its native range. The fungal disease is easily transmitted by wind and is very difficult to prevent. Trees often die within a few years of infection by butternut canker (Ministry of Natural Resource and Forestry, 2014).	Field Surveys	N	Not observed when conduction the spring vegetation survey	None
MAMMALS									
Tri-colored Bat (Eastern Pipistrelle) (Perimyotis subflavus)	END	END	1	S3?	The eastern pipistrelle is a small bat that is widely distributed in eastern North America and whose range extends north to southern Ontario. The eastern pipistrelle is rare in this region of Ontario which is at the northernmost limit of the natural range for the species. These bats prefer to nest in foliage, tree cavities and woodpecker holes, and are occasionally found in buildings; though this is not their preferred habitat. Winter hibernation takes place in caves, mines and deep crevices. Eastern pipistrelles feed primarily on small insects and prefer an open forest habitat type in proximity to water (University of Michigan Museum of Zoology, 2004).	Field Surveys	N	Suitable roosting habitat not observed in trees or in existing building	None
Eastern Small- footed Myotis (<i>Myotis leibii</i>)	END	No Status	No Schedule	S2S3	The eastern small-footed myotis, a bat, are an endangered species threatened by a disease known as white nose syndrome, caused by a fungus from Europe. Eastern small-footed bat's fur has black roots and shiny light brown tips, giving it a yellowish-brown appearance. Its face mask, ears and wings are black, and its underside is grayish-brown, about 8 cm long in size and weighs 4-5 grams. In the spring and summer, eastern small-footed bats will roost in a variety of habitats, including in or under rocks, in rock outcrops, in buildings, under bridges, or in caves, mines, or hollow trees. They change their roosting locations daily and hunt at night for insects to eat, including beetles, mosquitos, moths, and flies. They hibernate in winter, often in caves and abandoned mines. They can be found from south of Georgian Bay to Lake Erie and east to the Pembroke area, and choose colder and drier sites (Ministry of Natural Resources and Forestry, 2014).	Field Surveys	N	Suitable roosting habitat not observed in trees or in existing building	None
Little Brown Myotis (Myotis lucifugus)	END	END	1	S4	Little brown myotis, a bat, are an endangered species threatened by a disease known as white nose syndrome, caused by a fungus from Europe. Little brown bats have glossy brown fur and usually weigh between four and 11 grams. Bats are nocturnal. During the day they roost in trees and buildings. They often select attics, abandoned buildings and barns for summer colonies where they can raise their young. Little brown bats hibernate from October or November to March or April, most often in caves or abandoned mines that are humid and remain above freezing – an ideal environment for the fungus to grow and flourish. The syndrome affects bats by disrupting their hibernation cycle, so that they use up body fat supplies before the spring when they can once again find food sources (Ministry of Natural Resources and Forestry, 2014).	Field Surveys	N	Suitable roosting habitat not observed in trees or in existing building	None



NAME	SARO	COSEWIC	SCHEDULE	S-RANK	HABITAT REQUIREMENTS	SOURCE OF RECORD	POTENTIAL HABITAT PRESENT (Y/N)	RATIONALE	POTENTIAL IMPACTS AND MITIGATION
Northern Myotis (Myotis septentrionalis)	END	END	1	S 3	The northern long-eared myotis, a bat, are an endangered species threatened by a disease known as white nose syndrome, caused by a fungus from Europe. Northern long-eared bats have dull yellow-brown fur with pale grey bellies. They are approximately eight cm long, with a wingspan of about 25 cm, and usually weigh six to nine grams. Northern long-eared bats can be found in boreal forests, roosting under loose bark and in the cavities of trees. These bats hibernate from October or November to March or April, most often in caves or abandoned mines (Ministry of Natural Resources and Forestry, 2014).	Field Surveys	N	Suitable roosting habitat not observed in trees or in existing building	None

Notes:

SC - Special Concern

THR - Threatened

END - Endangered

S1 - Extremely rare in Ontario

S2 - Very rare in Ontario S3 - Rare to uncommon in Ontario

S4 - Considered to be common in Ontario

S5 - Species is widespread in Ontario

SH - Possibly extirpated

S#S# - Indicates insufficient information exists to assign a single rank.

S#? - Indicates some uncertainty with the classification due to insufficient data.

S#N - Nonbreeding

S#B - Breeding



Appendix D

Significant Wildlife Habitat Screening



Appendix D

Significant Wildlife Habitat Screening

SWH Type	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/N)	Additional Notes and Species Observations			
Seasonal Concentration Areas of Animals								
Waterfowl Stopover and Staging Areas (Terrestrial)	Duck-like species, Tundra Swan	CUM + CUT ecosites	Fields with sheet-water flooding mid-March to May. Specific areas for Tundra Swan	N	Suitable habitat is absent			
Waterfowl Stopover and Staging Area (Aquatic)	Ducks, Geese	Ponds, Lakes, Inlets, Marshes, bays, coastal inlets, watercourse used in migration, Swamps, Shallow Water Ecosites	Sewage & SWM ponds not SWH. Reservoir managed as a large wetland or pond/lake qualifies. Abundant food supply (inverts, shallow water veg)	N	Suitable habitat is absent			
Shorebird Migratory Stopover Area	Shorebirds	Beaches, Dunes, Meadow Marshes	Shorelines. Great Lakes Shores, including rocky ones. Sewage treatment ponds and storm water ponds not SWH.	N	Suitable habitat is absent			
Raptor Wintering Area	Eagles, Hawks, Owls	Hawks/Owls: Combination of both Forest and Cultural Ecosites Bald Eagle: Forest or swamp near open water (hunting ground)	Raptors: >20ha, with a combo of forest and upland. Meadow (>15ha) with adjacent woodlands. Eagles: open water, large trees & snags for roosting.	N	Suitable habitat is absent			
Bat Hibernacula	Big Brown Bat, Tri-coloured Bat	Caves, Crevices, mines, karsts	Buildings and active mine sites not SWH.	N	Suitable habitat is absent			
Bat Maternity Colonies	Big Brown Bat, Silver-haired Bat	Deciduous or mixed forests and swamps.	Mature deciduous and mixed forests with >10/ha cavity trees >25 cm DBH.	N	Suitable habitat is absent			
Turtle Wintering Area	Turtles (Midland, N. Map, Snapping)	SW, MA, OA, SA, FEO, BOO (requires open waters)	Free water beneath ice. Soft mud substrate. Permanent water bodies, large wetlands, bogs, fens with adequate DO. Man-made is not SWH.	N	Suitable habitat is absent			
Reptile Hibernaculum	Snakes	Snakes: Any ecosite (esp. w/ rocky areas), other than very wet ones. Talus, Rock Barren, Crevice, Cave, Alvar esp.	Access below frost line: burrows; rock crevices, piles or slopes, stone fences or foundations. Conifer/shrubby swamps/swales, poor fens, depressions in bedrock w/ accumulations of sphagnum moss or sedge hummock ground cover.		Suitable habitat is absent			
Colonially-nesting Bird Breeding Habitat (Bank and Cliff)	Cliff Swallow, N. Rough-winged Swallow	Banks, sandy hills/piles, pits, slopes, cliff faces, bridge abutments, silos, barns.	Exposed soil banks, not a licensed/permitted aggregate area or new man-made features (2 yrs).		Exposed banks present but signs of nesting not observed			
Colonially-nesting Bird Breeding Habitat (Tree/Shrubs)	Great Blue Heron, Black-crowned Night Heron, Great Egret, Green Heron	SWM2, SWM3, SWM5, SWM6, SWD1 to SWD7, FET1	Nests in live or dead standing trees in wetlands, lakes, islands and peninsulas. Shrubs and emergent may be used. Nests in trees are 11 - 15 m from ground, near tree tops.	N	Suitable habitat is absent			
Colonially-nesting Bird Breeding Habitat (Ground)	Herring Gull, Great Black-backed Gull, Little Gull, Ringbilled Gull, Common Tern, Caspian Tern, Brewer's Blackbird	lake or river. Brewer's Blackbird: close to watercourses in open fields or pastures	Gulls/Terns: islands or peninsulas with open water or marshy areas. Brewers Blackbird colonies: on the ground in low bushes close to streams and irrigation ditches.	N	Suitable habitat is absent			



SWH Type	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/N)	Additional Notes and Species Observations
Migratory Butterfly Stopover Area	Painted Lady, Red Admiral, Special Concern: Monarch	Combination of open (CU) and forested (FO) ecosites (need one from each).	≥10 ha, located within 5 km of Lake Ontario. Undisturbed sites, with preferred nectar species.	N	Suitable habitat is absent
Landbird Migratory Stopover Areas	All migratory songbirds. All migrant raptor species.	Forest (FO) and Swamp (SW) ecosites	Woodlots >5 ha within 5 km of L. Ontario & L. Erie (2-5 ha if rare in area). If multiple woodlands are along the shoreline, those <2 km from L. Ontario are more significant.	N	Suitable habitat is absent
Deer Winter Congregation Areas	White-tailed Deer	Mixed or Conifer ecosites	Determined by MNRF - no studies	N	Suitable habitat is absent
Rare Vegetation Commun	ities				
Cliffs and Talus Slopes		TAO, TAS, CLO, CLS, TAT, CLT e.g., Niagara Escarpment (contact NEC)	Cliff: near vertical bedrock >3m Talus Slope: coarse rock rubble at the base of a cliff	N	Vegetation community is absent
Sand Barren		SBO1, SBS1, SBT1	Sand Barrens >0.5 ha. Vegetation can vary from patchy and barren to tree covered, but <60%. <50% vegetation cover are exotic species.	N	Vegetation community is absent
Alvar	Carex crawei, Panicum philadelphicum, Eleocharis compressa, Scutellaria parvula, Trichostema brachiatum	ALO1, ALS1, ALT1, FOC1, FOC2, CUM2, CUS2, CUT2-1, CUW2	Alvar >0.5 ha. Need 4 of the 5 Alvar Inidcator Spp . <50% vegetation cover are exotic species.	N	Vegetation community is absent
Old Growth Forest	Trees >140 yrs; heavy mortaily = gaps. Multi-layer canopy, lots of snags and downed logs	FOD, FOC, FOM, SWD, SWC, SWM	Woodland areas 0.5 ha. No evidence of logging.	N	Vegetation community is absent
Savannah	Prairie Grasses w/ trees	TPS1, TPS2, TPW1, TPW2, CUS2	No min. size.A Savannah is a tallgrass prairie habitat that has tree cover of 25 – 60%. <50% cover of exotic species.	N	Vegetation community is absent
Tallgrass Prairie	Prairies Grasses dominate	TPO1, TPO2	No min. size. An <u>open Tallgrass Prairie</u> habitat has < 25% tree cover. Less than 50% cover of exotic species.	N	Vegetation community is absent
Other Rare Vegetation Communities		Provincially Rare S1, S2 and S3 vegetation communities are listed in Appendix M of SWHTG.	Rare Vegetation Communities may include beaches, fens, forest, marsh, barrens, dunes and swamps.	N	Vegetation community is absent
Specialized Habitat for Wi	ildlife				
Waterfowl Nesting Area	Ducks	Upland habitats adjacent to: MAS1 to MAS3, SAS1, SAM1, SAF1, MAM1 to MAM6, SWT1, SWT2, SWD1 to SWD4 (>0.5 ha open water wetlands, alone or collectively).	Extends 120 m from a wetland or wetland complex. Upland areas should be at least 120 m wide. Wood Ducks and Hooded Mergansers use cavity trees (>40 cm dbh).	N	Suitable habitat is absent
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat	Osprey, Bald Eagle	FOD, FOM, FOC, SWD, SWM, SWC directly adjacent to riparian areas	Nesting areas are associated with waterbodies along forested shorelines, islands, or on structures over water. Not man-made structures.	N	Suitable habitat is absent
Woodland Raptor Nesting Habitat	Barred Owl. Hawks: N. Goshawk, Cooper's, Sharp-shinned, Red-shouldered, Broad-winged.	Forests (FO), swamps (SW), and conifer plantations (CUP3)	>30 ha with > 4 ha interior habitat (200 m buffer)	N	Suitable habitat is absent



SWH Type	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/N)	Additional Notes and Species Observations			
Turtle Nesting Areas	Midland Painted Turtle Special Concern: Snapping Turtle, Northern Map Turtle	Exposed mineral soil (sand or gravel) areas adjacent (<100m) or within: MAS1 to MAS3, SAS1, SAM1, SAF1, BOO1, FEO1	Nest sites within open sunny areas with soil suitable for digging. Sand and gravel beaches.	N	Suitable habitat is absent			
Seeps and Springs	Wild Turkey, Ruffed Grouse, Spruce Grouse, White- tailed Deer, Salamander spp.	Seeps/Springs are areas where ground water comes to the surface.	Any forested area within the headwaters of a stream/river system. (2 or more confirms SWH type).	N	Suitable habitat is absent			
Amphibian Breeding Habitat (Woodland)	Woodland Frogs and Salamanders, E. Newt	FOC, FOM, FOD, SWC, SWM, SWD	Open water wetlands, pond or woodland pool of >500 m² within or adjacent to wooded areas. Permanent ponds or holding water until mid-July preferred.	N	Suitable habitat is absent			
Amphibian Breeding Habitat (Wetlands)	Toads, Frogs, and Salamanders, E. Newt	SW, MA, FE BO, OA and SA. Typically, isolated (>120m) from woodland ecosites, however larger wetlands may be adjacent to woodlands.	Open water wetland ecosites >500m² isolated from woodland ecosites with high species diversity. Permanent water with abundant vegetation for bullfrogs.	N	Suitable habitat is absent			
Woodland Area-Sensitive Bird Breeding Habitat	Birds (area-sensitive species)	FOC, FOM, FOD, SWC, SWM, SWD	Large mature (>60 years) forest stands/woodlots >30 ha. Interior forest habitat >200m from forest edge.	N	Suitable habitat is absent			
Habitat of Species of Con-	servation Concern			'				
Marsh Bird Breeding Habitat	Wetland Birds	MAM1 to MAM6, SAS1, SAM1, SAF1, FEO1, BOO1 Green Heron: SW, MA and CUM1	Wetlands with shallow water and emergent vegetation. Gr. Heron @ edges of these types w/ woody cover.	N	Suitable habitat is absent			
Open Country Bird Breeding Habitat	Upland Sandpiper, Grasshopper Sparrow, Vesper Sparrow, N. Harrier, Savannah Sparrow, Short-eared Owl (SC)	CUM1, CUM2	Grassland/meadow >30 ha. Not being actively used for farming. Habitat established for 5 years or more.	N	Suitable habitat is absent			
Shrub/Early Successional Bird Breeding Habitat	Brown Thrasher + Clay-coloured Sparrow (indicators); Field Sparrow, Black-billed Cuckoo, E. Towhee, Willow Flycatcher, Yellow-breasted Chat, Golden-winged Warbler	CUT1, CUT2, CUS1, CUS2, CUW1, CUW2	Large field areas succeeding to shrub and thicket habitats > 10 ha. Areas not actively used for farming in the last 5 years.	N	Suitable habitat is absent			
Terrestrial Crayfish	Chimney or Digger Crayfish; Devil Crayfish or Meadow Crayfish	MAM1 to MAM6, MAS1 to MAS3, SWD, SWT, SWM. CUM1 sites with inclusions of the aforementioned.	Wet meadow and edges of shallow marshes (no minimum size) should be surveyed for terrestrial crayfish (typc. protected by wetland setbacks).	N	Suitable habitat is absent			
Special Concern and Rare Wildlife Species	Any species of concern or rare wildlife species	Any ELC code.	Presence of species of concern or rare wildlife species.	N	No SC or rare species were observed. Breeding bird surveys confirmed no Special Concern bird species were present.			
Animal Movement Corridors								
Amphibians	Amphibians	all ecosites assoc. w/ water	When Breeding Habitat - wetland confirmed	N	Suitable habitat is absent			
Exceptions for Ecoregion 6E								
Bat Migratory Stopover: 7E-2	Hoary Bat, Eastern Red Bat, Silver-haired Bat	No Specific ELC	Long Point (42°35' N, 80°30'E to 42°33' N, 80°,03'E) - Silver-haired.	N	Not in 7E-2			



Significant Wildlife Habitat Criteria as per "Peel-Caledon Significant Woodlands and Significant Wildlife Habitat Study" - North-South

Environmental (2009 Prov.	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence	Rationale
	SWH	Associated Species	Associated ELC Ecosites	Habitat Criteria	(Y/N)	Kationale
Seasonal Concentration A1. Deer Wintering						
(Congregation) Areas A2. Colonial Bird Nesting Sites	6E, 7E 6E, 7E	White-tailed Deer Great Blue Heron, Great Egret, Black-crowned Night-Heron & Black Tern. Additional species w/# of pairs: Green Heron (2), Common Tern (5), Northern Rough-winged Swallow (5), Bank Swallow (30), Cliff Swallow (8), Barn Swallow (3), Sedge Wren (3) and Marsh Wren	Mixed or Conifer ecosites Any ELC code.	Any community excluding aeas with human activity (recreational or human services)	No No	Not identified in Study Area Appropriate Habitat not within Study Area
A3. Waterfowl Nesting Habitat		(3). Wood Duck, Gadwall, American Wigeon, American Black Duck, Blue- winged Teal, Northern Shoveler, Northern Pintail, Green-winged Teal, Redhead, Hooded Merganser, Common Merganser, Ruddy Duck	Uplands adjacent to wetlands	Upland habitats (up to 120 m) adjacent to Marsh, Swamp or Shallow Water. Wetlands >0.5 ha, or 3+ (<0.5 ha) within 150 m Any comb. of 3+ nesting pairs, or any combo of 10+, including Mallards.	No	Appropriate Habitat not within Study Area
A4i. Migratory Landbird Stopover Areas (Peel only)	7E	7E: All migratory songbirds. All migrant raptor species.	All ELC codes; and cultural (w/ size threshold)	2 km of L. Ontario; River and creek valleys ≤5 km of L. Ontario; 500 m of a river valley ≤5 km of L. Ontario. (If "Successional (CU)", must be >5 ha on lakeshore, or >10 ha in above areas). Not recreation areas.	No	>2 km from L. Ontario
A4ii. Migratory Bat Stopover Areas		Bats	Any ELC code.	OMNR Wind Resource Atlas (future ID). Likely overlap with SWH A4i.	No	Limited conifer trees in proposed disturbance area do not provide potential habitat.
A4iii. Migratory Butterfly Stopover Area (Peel only)	7E	7E: Painted Lady, Red Admiral, Special Concern: Monarch	6E/7E: Combination of open (CU) and forested (FO) ecosites (need one from each).	Criteria A4i areas. Lakeside Park, Rattray Marsh during fall.	No	>2 km from L. Ontario
A4iv. Migratory Waterfowl Stopover/Staging Areas (Terrestrial)	6E, 7E	Wood Duck, Gadwall, Am. Wigeon, Am. Black Duck, Blue-winged Teal, N. Shoveler, N. Pintail, Green- winged Teal, Ring-necked Duck.	GE/7E: CUM + CUT ecosites	1-day observations of 100+ individuals of criteria species (background or field studies over 2-years)	No	Study Area could not support the required number of criteria species, and does not provide ideal habitat.
A4v. Migratory Waterfowl Stopover/Staging Areas (Aquatic)	6E, 7E	Mainland and Nearshore species lists	6E/7E: Ponds, Lakes, Inlets, Marshes, Swamps, Shallow Water Ecosites	Mainland: 100+ indiv. (1-day obs.) Nearshore: West End of L. Ontario IBA, & areas east of IBA w/250+ indiv. (1-day obs.)	No	Study Area could not support the required number of criteria species, and does not provide ideal habitat.
A4vi. Migratory Shorebird Stopover Area	6E, 7E	Shorebirds (75 or more individuals - 1-day obs.)	6E/7E: Beaches, Dunes, Meadow Marshes	100 m reach of shoreline or 0.2 ha size.	No	No shorelines including beaches, dunes or meadow marshes in Study Area
A5. Raptor Wintering Area	6E, 7E	Northern Harrier, Red-tailed Hawk, Rough-legged Hawk or American Kestrel	6E/7E: CUM or AGR	Open fields >20ha, with forest adjacent. Occupied 60% of winters. 2+ criteria species and 10+ indiv. Any Short-eared Owl site.	No	Appropriate Habitat not within Study Area
A6. Snake Hibernaculum	6E, 7E	E. Gartersnake (10+), Dekay's Brownsnake (5+), Ring-necked Snake, Smooth Greensnake, N. Watersnake or Red-bellied Snake (2+)	6E/7E: Any ELC code. Except foundations of buildings	Species at numbers listed, or any comb. of 2+ criteria species. Access below frost line - see 6E/7E criteria	No	Appropriate Habitat not within Study Area
A7. Bat Maternity Roosts and Hibernacula	6E, 7E	Big Brown Bat (30;30), Little Brown Bat (100;50), Eastern Popistrelle (10;20), Silver-haired Bat (10;N/A), Long Eared Bat (10;20), Small- footed Bat (10, All sites)	all ecosites including caves, crevices and old mine shafts	OMNR Wind Resource Atlas. Criteria numbers are for roosts, then hibernacula (X:Y)	No	Limited conifer trees in proposed disturbance area do not provide potential habitat, and not for criteria numbers
A8. Bullfrog Concentration Areas		Bullfrog	Non-forested ELC sites	Any site w/ Bullfrog	No	Appropriate habitat (wetlands with still oper waters) not within Study Area
A10. Turkey Vulture Summer Roosting Areas		Turkey Vulture	No criteria given.	No criteria given.	No	Turkey Vulture (and nests) not observed in Study Area



SWH Type	Prov. SWH	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/N)	Rationale
B1. Rare Vegetation Communities		Any S1-S3 Veg. Comm., Bogs, Fens, and: FOC1-2, FOM2-1, FOM2-2, FOM6- 1, FOD1-1, FOD1-2, FOD1-4, FOD2- 2, FOD2-3, FOD6-2, MAM3-6, SWC3 2, SWT3-2	Plus targeted S3S4 - S5 comm. In 6E- 7, 7E-4 (see Guide)		No	Rare communities not within Study Area
B2. Forests Providing a High Diversity of Habitats				Criteria captured under <u>Significant</u> <u>Woodlands</u> criteria (size/interior, prox. to watercourse, Sig. habitats/spp.)	No	Appropriate Habitat not within Study Area
B3. Old-Growth/Mature Forest Stands	6E/7E	6E/7E: Trees >140 yrs; heavy mortaily = gaps. Multi-layer canopy, lots of snags and downed logs	GE/7E: FOD, FOC, FOM, SWD, SWC, SWM	Sig, Woodland criteria for Age/Size. $6E/7E$: Woodland areas ≥ 30 ha with $a \geq 10$ ha interior habitat, assuming a 100 m buffer at edge of forest.	No	Appropriate Habitat not within Study Area
B4. Foraging Areas w/ Abundant Mast	6E	6E: 6E-14 only	Consider FOD1, FOD2, FOD9 sites.	Sig, Woodland criteria for Age/Size.	No	Appropriate Habitat not within Study Area
B5. Highly Diverse Areas		Note - Not adopted on Town of Caledon Official Plan No mapping provided of top 5% continuous areas	Woodlands, Wetlands and Cultural	Top 5% of continuous natural areas; not seperated by roads or built-up area by >20 m gaps.	No	Appropriate Habitat not within Study Area. Disturbance area is mowed lawns.
B6. Cliffs and Caves	6E/7E		Any cliff, talus, crevice or cave ELC code - S1 - S3.	Any Cliff, talus, crevice or cave ELC code - S1 - S3.	No	Appropriate Habitat not within Study Area
B7. Seeps and Springs	6E/7E			Seep area must be surveyed for evidence of area supporting <u>other</u> SWH criteria	No	Appropriate Habitat not within Study Area
B8i. Amphibian Breeding Habitat (Forested Sites - vernal pools)	6E/7E	Woodland Frogs, Newts, and Salamanders - Group A and Group B species	Vernal pools in forested sites	Group A: 2+ spp., w/ 40+ indiv. (20+ callers) Group B: 30+ indiv. (salamanders) - vernal pool obligates.	No	Appropriate Habitat not within Study Area
B8ii. Amphibian Breeding Habitat (Non- Forested Sites)	6E/7E	Woodland Frogs, Newts, and Salamanders - Group A and Group B species	6E/7E: SW, MA, FE, BO, OA and SA. Typically isolated (>120m) from woodland ecosites, however larger wetlands may be adjacent to woodlands.	Group A: 2+ spp., w/ 40+ indiv. (20+ callers) Group B: 30+ indiv. (salamanders) - vernal pool obligates. All Bullfrog or Mudpuppy sites - any #	No	Appropriate Habitat not within Study Area
B9. Turtle Nesting and Turtle Overwintering Areas	6E/7E	Midland and Snapping		5+ pairs/individuals	No	Appropriate Habitat not within Study Area
B10. Habitat for Area Sensitive Forest Interior Breeding Bird Species	6E/7E	Birds (area-sensitive species) - see list, as is specific	GE/7E: FOC, FOM, FOD, SWC, SWM, SWD	Mature forests (>60 yrs) w/interior patch of 4+ ha. 3+ listed spp. w/confirmed breeding evidence.	No	Forest patches with interior habitat not in Study Area
B11. Habitat of Open Country & Early Successional Breeding Birds	6E/7E	Gropup A and Group B Species	6E/7E: CUM1, CUM2	Open country Habitats ≥10 ha, not farmed for ≥5 yrs, with confirmed: -4+ Group A spp., or -3+ Group A and 4+ Group B.	No	Appropriate Habitat not within Study Area
B12. Habitat for Wetland Breeding Birds	6E/7E	Gropup A and Group B Species	6E/7E: MAM1 to MAM6, SAS1, SAM1, SAF1, FEO1, BOO1 Green Heron: SW, MA and CUM1	Group A: 5 nesting pairs (any) Group B: 4 nesting pairs (any)	No	Appropriate Habitat not within Study Area; criteria species not observed (2021 study)
B13i. Raptor Nesting Habitat (Wetlands, ponds and rivers)	6E/7E	N. Harrier, Osprey		1+ active nests	No	Appropriate Habitat not within Study Area; criteria species not observed (2021 study)
B13ii. Raptor Nesting Habitat (Woodlands)	6E/7E	Hawks: Sharp-shinned, Coopers, N. Goshawk, Red-shouldered, Broaad- winged Owls: Saw-whet, Barred, Long- eared		1+ active nests	No	Appropriate Habitat not within Study Area; criteria species not observed (2021 study)
B14. Minks, River Otter, Marten and Fisher Denning Sites		Minks, River Otter, Marten, Fisher	Close to bodies of water.	Areas with dens - min. 10x10 m around the den site. Mink dens in areas of low disturbance. Add'l mgmt. criteria.	No	Proposed disturbance area would not impact creek area.
Habitat of Species of Co	nservati	on Concern				
C1. Nationally Endangered or Threatened by COESWIC (but not ESA)		Any Nationally Endangered or Threatened species, not found in Endangered Species Act.	Any ELC code.	Determined on a case-by-case basis with the MNRF.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.



SWH Type	Prov. SWH	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/N)	Rationale
C2. Species Identified as Special Concern - SARO	6E/7E	Any Special Concern species. Based on SARO list.	Any ELC code.	Determined on a case-by-case basis with the MNRF.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.
C3. Species that are Rare (S1-3) or Historical in Ontario (NHIC)	6E/7E	Rare (S1-S3) NHIC species	Any ELC code.	Determined on a case-by-case basis with the MNRF.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.
C4. Species whose populations appear to be experiencing substantial declines in Ontario.		Species with Significant Declines (Breeding Birds, Amphibians and Reptiles)	Any ELC code.	Significant Declines with a 90% confidence level or higher.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.
C5. Species with a high percentage of their global population in Ontario and are Rare or Uncommon in the Region.		Any determined species.	Any ELC code.	Determined by Municipality of Peel or Town of Caledon	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.
C6. Species that are Rare within Peel/Caledon		Any determined species.	Any ELC code.	Plants determined as Rare by <i>Varga et al.,</i> 2005. Wildlife determined by TRCA or CVC list.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.
C7. Species that are subjects of Recovery Programs		Rapids Clubtail, Western Chorus Frog, Common Nighthawk, Whip- poor-will, Chimney Swift, Olive- sided Flycatcher and Canada Warbler	Any ELC code.	As well as any species subject to other recovery programs.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.
C8. Species considered inportant to the Region of Peel/Town of Caledon - Local Conservation		Any determined species.	Any ELC code.	Currently no list but this SWH section is put in place in case a list is created.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.
Animal Movement Corri	_					
D1. White-tailed Deer and General Animal/Plant Movement Corridors	6E/7E	White-tailed Deer	Criteria to be defined, but could include: Primary: (E.g. Niagara Escarpment) Secondary (e.g., major river valleys) Tertiary (e.g., hedgerows)	Consider local importance of potential corridor. Tertiary determined via site-specific studies, based on policy, if exists.	No	Appropriate Habitat not within Study Area; proposed disturbance area is an anthrpopogenic mowed lawn.