Prepared for: GR (CAN) Investments Inc.

Thundering Waters Secondary Plan

Preliminary Natural Heritage Characterization Report (DRAFT)



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1. INTRODUCTION

1.1. TERMS OF REFERENCE SUMMARY AND OBJECTIVES

Dougan & Associates Ecological Consulting and Design (D&A) and C. Portt and Associates (CPA) were retained in early 2015 by GR (Can) Investments to provide natural heritage support for the Secondary Plan process that has been initiated for the lands colloquially known as Thundering Waters.

Throughout spring and summer 2015, D&A and CPA worked with the Secondary Plan team, the client, and the approvals agencies to develop a terms of reference (ToR) to outline the scope for the natural heritage studies required to support, and inform, the Secondary Plan process of important environmental features that will require protection and management.

The ToR for the natural heritage studies used the Niagara Region's Environmental Impact Study (EIS) guidelines as a framework for the proposed scope, as well as input from the Niagara Peninsula Conservation Authority (NPCA). The submitted (not yet approved) ToR is provided in Appendix A, and in summary includes the following study objectives for the natural heritage characterization report:

Fieldwork and reporting to identify the following terrestrial and aquatic natural heritage elements was required:

- Provincially Significant Wetland (PSW) areas
- Habitat of Endangered and Threatened Species
- Significant Woodlands
- Habitat of Species of Concern
- Location of NPCA regulated wetlands
- Critical Fish Habitat (Type 1)
- Critical Fish Habitat (Type 2 and 3)

The work plans to address these objectives are outlined in the ToR (Appendix A). Comments on the proposed ToR from NPCA highlighted that in addition to the proposed work plan, crepuscular bird habitat characterization should be considered (primarily to assess habitat suitability and occurrence of Eastern Whip-poor-will (*Antrostomus vociferus*) should be considered, as well as inventory for Bat Maternity Roost trees.

In this report, results from fieldwork conducted between March-September 2015 is summarized. The report concludes with proposed principles and recommendations that will help guide specific details of an environmental management plan for the Secondary Plan area.

1.2. STUDY AREA SUMMARY

The study area is located within the eastern-most extent of the Niagara Peninsula (Map 1). The study area is bounded by Oldfield Road to the north, Dorchester Road to the west, Chippawa Parkway to the south, and lands west of the existing development along Kister Road (Map 1).

In this area, the bedrock geology consists of sandstone, shale, dolostone, and siltstone of the Guelph Formation, which overlays Precambrian basement rock (Ontario Geological Survey, 2011). The study area is also within the Haldimand Clay Plain, and the surficial geology consist predominantly of fine-textured glaciolacustrine deposits of silt and clay with minor sand and gravel components (Chapman and Putnam 1983; Ontario Geological Survey, 2010). In the south-western corner of the study area the soils consist of man-made deposits of fill (Ontario Geological Survey, 2010), which are likely from the excavation of the adjacent Power Canal and/or the Conrail Drain that bisects the study area.

Topographic relief across the site is minimal and generally slopes in a south and south-east direction towards the Welland River and power canal. Fine-scale topographic variation across the site is due to a combination of small moraine ridges in undisturbed areas, and man-made deposits and drainage ditches. The small moraines, or sloughs, underlie most of the Niagara Falls Slough Forest Wetland Complex (NFSFWC), and are characterized by a network of shallow depressions and connecting channels which create complex drainage patterns. Slough topography such as that present on the property was likely formed at the margin of the retreating Laurentide Ice Sheet during the Late Wisconsinan glacial period (Menzies et al. 2001); land use practices during recent times, however have undoubtedly modified these systems. Along Dorchester Road and Chippawa Parkway most of the slough topography has been eliminated due to filling and piling.



2. METHODS

2.1. BACKGROUND REVIEW

2.1.1. MNRF DATA

A spatial query for records of natural heritage areas (e.g. Woodlands, Wetlands, Areas of Natural and Scientific Interest (ANSI)) and Species at Risk was conducted for the study area and the adjacent 1km grid squares using data provided by the Natural Heritage Information Centre (NHIC) and their online mapping tool (Figure NHIC 2015) on May 6th, 2015. Species at Risk records were also requested from local MNRF staff (Anne Yagi, Pers. Comm.), along with any specific information regarding their occurrence in the area.

2.1.2. NPCA DATA

The Niagara Peninsula Conservation Authority's online mapping tool was used to review existing mapping for ELC, Environmental Conservation Areas, Wetlands, and associated regulated area layers on April 9th, 2015. Additionally, meetings with the NPCA ecology staff identified potential species of conservation concern and wildlife habitat that would require consideration for field inventory, including: Whip-poor-will and Bat Maternity Roost habitat.

2.2. SITE VISITS

2.2.1. ECOLOGICAL LAND CLASSIFICATION

Vegetation communities were classified and mapped using the Ecological Land Classification System for Southern Ontario (Lee et al. 1998). Interpretation of aerial photo/satellite imagery, MNRF wetland boundaries, and a digital elevation model from LiDAR points were used to determine differences in land cover across the study area and establish potential ELC boundaries. Subsequent site visits were conducted to confirm/refine boundaries and classify the vegetation communities present. The Niagara Natural Area Inventory (NAI) (NPCA 2010) was also reviewed to determine which ELC communities were likely to occur within the study area.

D&A staff completed site visits to classify vegetation communities during the spring, summer, and fall 2015; specific dates and staff present are summarized in Table 1. During each site visit, staff walked transects through each pre-defined polygon to inventory the flora and determine the composition of the dominant canopy species. Soil texture and soil moisture regime were determined using Denholm and Schut (2009) by extracting soil cores within representative areas of each ELC vegetation type.

2.2.2. PLANT INVENTORY

Spring, summer, and fall vegetation inventories were conducted simultaneously with site visits for ELC and wetland boundary delineation, as outlined in Table 1. The habitat requirements for all Species at Risk (SAR) identified during the review of background material were noted and used in the field to

improve the potential for detecting these species. When SAR and/ or provincially rare species were observed, a GPS point and notes regarding the habitat were taken. Vascular plants species that could not be positively identified in the field were collected, pressed, and confirmed at a later date. The nomenclature reported for all vascular plants is consistent with the Natural Heritage Information Centre (NHIC 2014). Federal rankings for identified Species at Risk are from the Committee on the Status of Endangered Wildlife in Canada (COSEWIC, 2015), provincial rankings for Species at Risk are from the Natural Heritage Information Centre (NHIC 2014), and regional rankings are from Oldham (2010). The native status of identified plants is based on the NHIC (2014).

2.2.3. WETLAND BOUNDARY DELINEATION

As per the request of the Ontario Ministry of Natural Resources and Forestry (Anne Yagi, Pers. Comm.), the boundary of the Niagara Falls Slough Forest Wetland Complex PSW required delineation. D&A staff delineated the boundary using the Ontario Wetland Evaluation System (OWES) protocols; a Trimble GeoExplorer 6000 Series GeoXH high-accuracy GPS unit was used to georeference the boundary. This boundary was reviewed in the field with MNRF and NPCA staff. A summary of the dates and surveyors present for the wetland boundary delineation is provided in Table 1.

2.2.4. SALAMANDER INVENTORY

Dougan & Associates undertook a salamander trapping program within the study area. This program was employed to determine the extent of pond breeding salamander diversity and activity and to screen for the Endangered Jefferson Salamander (*Ambystoma jeffersonianum*) (Species-at-Risk; COSEWIC 2015; OMNR 2015).

The study involved the capture of pond-breeding salamanders in natural populations at select locations shown in Appendix B. Tissue samples (i.e. tail tips) were required from individual Ambystoma salamanders in order to perform DNA analysis to definitively determine which species or polyploids are present. Tissue samples were obtained in the field and specimens were released at the capture site.

Prior to fieldwork, Wildlife Animal Care Committee Research Protocol (WACCRP), Wildlife Scientific Collectors Authorization (WSCA) and Endangered Species Act (ESA) permits were required. Applications for these permits were submitted on March 27, 2015. OMNRF staff accompanied field staff during the first trapping round to observe protocols and ensure that WACCRP, WSCA and ESA standards were upheld. The following permits numbers were issued for the 2015 trapping program: WACCRP: 15-143, WSCA: 1079399, ESA: GU-B-004-15.

In order to ensure that all individuals are treated with the highest care, standard operating procedures were followed. In particular, the following sets of documents were reviewed prior to fieldwork and recommendations followed wherever applicable:

- Canadian Council on Animal Care Species-specific Recommendations on: Amphibians & Reptiles
- Canadian Council on Animal Care Guidelines on: The Care and Use of Wildlife
- USGS National Wildlife Health Center "Restraint & Handling of Live Amphibians"
- In addition, although toe-clipping was not performed, the USGS National Wildlife Health Centre "Toe-Clipping of Frogs and Toads" (also covers salamanders) was reviewed for general insights

The protocol for trapping in the 2015 season was undertaken to minimize the length of time that captured specimens spent in traps. This lessened the potential of salamanders becoming fatigued and/or oxygen deprived. Salamanders were handled for the shortest amount of time possible, but long enough to collect a tail tip sample. The smallest sample necessary to obtain a successful genetic analysis is taken, approximately 5 mm which can take up to about a minute of handling time.

The trapping survey period was selected to coincide with adult Ambystomid seasonal migrations to breeding ponds (Stebbins and Cohen, 1995; JSRT, 2009; COSEWIC, 2010). An initial site reconnaissance before trapping was started was conducted on April 1st, 2015 to confirm pond location; during the visit target ponds had ice cover between 75 and 100%. Trapping was undertaken one week later, following a warm spring rain. Survey dates and conditions are outlined in Table 2.

Based on site reconnaissance and screening of habitat suitability as well as correspondence with OMNRF (Pers. corres. with Guelph District OMNRF) and results from previous salamander trapping studies on site (unpublished 2009 OMNRF salamander trapping program within the study area), eight (08) ponds were selected for trapping in 2015 (Appendix B). Potentially suitable breeding ponds are present throughout the slough forest habitat on site, and although they vary in size (aerial photo interpretation of ponds suggested ponds range from approximately 26m² to 4032m²), the larger ponds were generally similar in structure and vegetation characteristics. Larger pools were targeted to ensure that the trapping effort was focused on habitat with adequate depth and sufficient vegetation to support egg-laying sites, and thus would increase the chance that salamanders would be captured.

Five traps were deployed in each of the eight ponds surveyed (40 traps total) during the five evenings outlined in Table 2. Within the study ponds, specific trap locations were chosen in the field based on pond shape, depth and the presence of egg-laying sites (e.g. submerged vegetation, logs, shrubs), as these areas are thought to be more attractive to breeding adult salamanders.

Adult salamanders were collected using standard 6mm square, silver wire mesh minnow traps in suitable breeding ponds. On sample nights, the traps were set out before dark and checked early the following morning to minimize the amount of time salamanders spent in the traps. Each trap was flagged, numbered, georeferenced, and attached with rope to a fixed feature on land (i.e. tree, deadfall, rock). Traps were placed in the water with at least 85% of the trap submerged and ensure that the trap was lying horizontally on the pond bottom.

When salamanders were caught, specimens handled for analysis were limited to individuals belonging to the "Jefferson Salamander complex" (i.e. *Ambystoma laterale – A. jeffersonianum complex*); other amphibian species and wildlife (e.g. invertebrates and fish) were documented and released. When a specimen from the "Jefferson Salamander Complex" was captured, a small amount of tail tip was removed (~ 5 mm) using a sterile scalpel blade. The tail tip was then placed into a labelled tube of 70% ethanol. After each sample, the scalpel and cutting surface were sterilized using rubbing alcohol and an open flame; scalpel blades were also replaced frequently. After processing, specimens were held for several minutes in a container to monitor for any signs of adverse health effects. After this monitoring period, specimens were released at the point of capture.

On May 7, 2015 tail-tip samples collected during the trapping study were delivered to the lab of Dr. James Bogart, at the University of Guelph. These samples were processed in Dr. Bogart's lab to determine specimen polyploid identification. Results of this DNA analysis were delivered to Dougan & Associates on June 23, 2015.

2.2.5. NOCTURNAL AMPHIBIAN CALL SURVEYS

Nocturnal Amphibian Call Surveys were conducted in accordance with the Marsh Monitoring Program (MMP) (Bird Studies Canada 2009). Survey dates were selected to ensure weather conditions were well within the acceptable ranges described by the MMP (Table 3). During site reconnaissance visits throughout the first half of April, 2015, active amphibian breeding habitat and potentially suitable breeding habitat was detected in several parts of the study area. Informed by this site reconnaissance 10 stations were established around the perimeter of the study area on April 19th, 2015 (Table 3; Appendix B). Three additional stations were added on May 28th, 2015, for a total of 13 surveyed during May and June, 2015 (Table 3; Appendix B). Two of these additional locations, NACS 11 and NACS 12, were established along the Conrail Drain that bisects the study area (Appendix B). NACS 13 was established on the north eastern edge of the study area near salamander Trapping Pond 6 (Appendix B).

2.2.6. BREEDING BIRD SURVEYS

Two breeding bird surveys were conducted on May 28 and May 29 (first survey) and June 4 and June 5 (second survey), 2015, following the protocols outlined by the Ontario Breeding Bird Atlas (OBBA) (Cadman et al., 2007). The survey locations are shown in Appendix B. The OBBA protocol stipulates that the surveys be conducted between sunrise and 10:00 a.m., between May 24 and July 12, during appropriate weather conditions (i.e., light winds, no heavy rains, and good visibility). Given the size of the study area, a total of 32 Point Count Stations (PCS) were surveyed for 10 minutes each (Appendix B), with additional species noted in areas between and outside of the PCS locations.

2.2.7. AQUATIC SURVEYS

Field investigations were conducted by C. Portt and Associates staff, on April 11th, 12th, 21th, June 11th, and October 6th, 2015. The initial field investigations were conducted to characterize the aquatic habitats within the subject properties, and assess their importance under early spring conditions with regard to potential spawning habitat and accessibility for fish. In particular, wetland areas within the subject properties and along the edge of the Welland River were evaluated for their suitability and utilization as spawning areas for Northern Pike (Esox lucius), and watercourses were examined for rifflespawning fishes such as White Sucker (Catostomus commersonii). Locations that were identified as having potential for spawning and/or more permanent habitats were examined again on April 21th, 2015. Additional observations of flow and general habitat were conducted on June 11 and October 6. Electrofishing was undertaken on June 11 and October 6, 2013, using a Halltech 2000 backpack electrofisher. After field identification and enumeration, all fish were released alive at the point of capture. A Garmin GPS 76CSx Global Positioning System (GPS) unit was used to record the locations of all observations and digital photographs, as well as electrofishing locations. Selected photographs of site conditions are provided in Appendix H. Common aquatic plants were identified at a basic level to be included, where appropriate, in habitat descriptions, but no attempt was made to characterize the full aquatic macrophyte community.

The Ministry of Natural Resources and Forestry (MNRF) and the Niagara Peninsula Conservation Authority (NPCA) were also contacted to obtain any relevant existing fish collection information.



3. RESULTS

3.1. BACKGROUND STUDIES

3.1.1. TERRESTRIAL

The spatial query for NHIC data revealed a total of sixty-three (63) records for species of conservation concern known to occur presently or historically within approximately 1km of the study. The records include forty-nine (49) species of vascular plants, four (4) birds, two (2) fish, four (4) invertebrates, including three (3) mollusks and one (1) odonate, three (3) reptiles, and one (1) restricted record. The provincial rankings (S Rank; NHIC, 2014) ranged from Presumed Extirpated (SX) to Apparently Secure (S4), though most records are for species that are considered Critically Imperiled (S1), Imperiled (S2), or Vulnerable (S3), or some combination of those rankings. According to COSEWIC (2015), twelve (12) species are Endangered (END), four (4) species are Special Concern (SC), seven (7) species are Threatened (THR), and one (1) species is Extirpated (EXP). Species at Risk in Ontario include twelve (12) Endangered (END), three (3) Special Concern (SC), eight (8) Threatened (THR), and one (1) extirpated species (MNRF; NHIC, 2014).

In addition to the NHIC Query, Guelph District MNRF staff provided the following list of species that may occur in the areas:

- Round-leaved Greenbrier (*Smilax rotundifolia*); Present in Warren Creek PSW- possibly in Niagara Falls Slough Wetland PSW (NFSW)
- Snapping Turtle (Chelydra serpentina); Highly likely using site
- Eastern Flowering Dogwood (Cornus florida); Not likely- upland species
- White Wood Aster (*Eurybia divaricate*); Not likely-upland species
- Swamp Rose-mallow (*Hibiscus moscheutos*); Yes. Present along Chippawa Channel (formerly Welland River)
- Butternut (Juglans cinerea); Possibly
- American Water-willow (Justicia americana); No. Present in Lyon's Creek and Dufferin Island Only
- Peregrine Falcon (*Falco peregrinus*); Nesting active in cliff and old OPG building at base of fall in Lower Niagara River
- Eastern Meadowlark (Sturnella magna); Good potential in open areas

A review of natural heritage mapping by the NHIC (2014) identified both woodlands and a Provincially Significant Wetland (PSW), the Niagara Falls Slough Forest Wetland Complex (NFSFWC), occurring within the study area (Figure 2). The NFSFWC consists of multiple wetland units both within and outside of the study area. Based on NHIC mapping, seven (7) wetland units occur within the study area, including two relatively large, contiguous units. Aside from the NFSFWC, additional woodlands are shown throughout the study area with the exception of several large areas within the southern half of the study area and along the rail corridor and large drainage feature that bisect the study area (Map 2).

3.1.2. AQUATICS

The MNRF (Anne Yagi) stated that it does not have any fish information for this site. Anne Yagi also suggested that the mouth of the Conrail Drain should be investigated with regard to fish access from the Power Canal, and that spawning Northern Pike (Esox lucius) may access the wetlands along the edge of the Welland River.

The NPCA (Lee-Ann Hamilton) indicated that it does not have any fish information for this site.

3.2. SITE INVESTIGATIONS

3.2.1. ECOLOGICAL LAND CLASSIFICATION

A total of 13 ELC dominant vegetation communities from Anthopogenic, Cultural, Forest, and Swamp ELC Ecosites were identified among 47 polygons during the site investigations conducted in 2015 (Table 5). Within the some of the ELC communities, an additional seven (7) vegetation types were identified as complexes and/or inclusions with the dominant vegetation types. A summary of the dominant ELC communities is provided in Table 5, and a list of all ELC vegetation types observed including their provincial rankings are provided in Table 6. Oak Mineral Deciduous Swamp (SWD1) accounts for the largest proportion of the study area at 95ha (42%) followed by Mineral Cultural Woodland (CUW1; 19%), Green Ash Mineral Deciduous Swamp (SWD4-1; 13%) (Table 5). The remaining vegetation communities each amount to less than 10% of the total study area.

Each of the dominant ELC Ecosites and Vegetation Types is summarized below. For species associated with the ELC polygons see Table 6.

3.2.1.1. ANTHROPOGENIC LANDS

Anthropogenic (ANTH): Polygon 41

Lands classified as ANTH include areas that have been cleared of natural vegetation and are in use for human activities such as parking lots, lawns, residential dwellings, commercial outlets, and industrial structures. Due to the removal of natural habitats, features, and functions from these areas, all lands categorized as ANTH are considered to be low quality.

Anthropogenic lands account for only 3.62ha (1.61%) of the study area, and are found only in the easternmost portion of the study area (Polygon 41; Figure 2). This area is a former industrial site with several buildings, aggregate storage areas, and a driveway from Progress Street. Vegetation within this polygon was sparse and primarily early successional with scattered shrubs and trees. Industrial waste was also present throughout, including piles of garbage and concrete bordering the adjacent vegetation communities.

3.2.1.2. CULTURAL PLANT COMMUNITIES

Dry-Moist Old Field Meadow (CUM1-1): Polygons 42, 43, 44

Cultural meadows represent a very early stage of natural succession. They contain a low abundance of woody species (<25% cover) and are dominated primarily by opportunistic forbs and grasses. Cultural meadows account for 19ha (8.5%) of the study area, and are present along and within the Conrail Drain that bisects the study area (Polygon 7), a large open area used informally for all-terrain vehicles along Dorchester Road (Polygon 25), and areas adjacent to the industrial facility (Polygons 42, 43, 44) at the eastern edge of the study area. Polygon 7 is a long, linear, drainage feature, polygon 25 is large open filled area, and polygons 42 − 44 are old-fields that may have a history of agricultural use based on historic imagery (Google Earth™, 2015).

Dominant species included exotic forbs (e.g. *Trifolium pretense, Vicia cracca*) and grasses (e.g. *Phragmites australis ssp australis, Schedonorus pratensis*), though some native species such as Hemp Dogbane (*Apocynum cannabinum*), Strict Blue-eyed-grass (*Sisyrinchium montanum var. montanum*), and Goldenrod (*Solidago altissima, S. juncea*) were present. Relative cover of trees and shrubs was less than 25%, and included scattered Eastern Cottonwood (*Populus deltoides ssp deltoides*), and patches of Common Buckthorn (*Rhamnus cathartica*), Heart-leaved Willow (*Salix eriocephala*), Gray Dogwood (*Cornus racemosa*), and Dotted Hawthorn (*Crataegus punctata*). Regionally rare species includes Wooly Sedge (*Carex pellita*), which was observed in a moist pocket within polygon 25.

Cultural Thicket (CUT1-1): Polygon 16

These communities are characteristic of lands that have been cleared in the past, left to regenerate, and succeed towards a naturally-vegetated community. Cultural thickets include areas in a somewhat later stage of succession than cultural meadow, where shrub cover is greater than 25% but tree cover remains below 25%. Cultural thicket communities are dominated by woody shrubs and often have an understory of forbs and grasses.

Overall, mineral cultural thicket accounts for approximately 15.7 ha (7%) of the land cover within the study area, and is only present as a dominant Ecosite within polygon 16. This area is dominated by Dotted Hawthorn with occasional Gray Dogwood, and scattered trees including American Elm (*Ulmus Americana*) and Eastern Cotton Wood. The herbaceous groundcover community is abundant with Smooth Aster (*Symphyotrichum laeve var. laeve*), Old Field Aster (*Symphyotrichum pilosum var. pilosum*), New England Aster (*Symphyotrichum novae-angliae*), and Wild Strawberry (*Fragaria virginiana*) in moist areas; drier areas contained Gray-stemmed Goldenrod (*Solidago nemoralis*), Early Goldenrod, Canada Pussytoes (*Antennaria howelii ssp. canadensis*), Oxeye Daisy (*Leucathemum vulgare*), and Common St. John's-wort (*Hypericum perforatum*). Notable species include Canada Pussytoes and Yellow Sedge (*Carex flava*), which are both rare within Niagara Region. The substrates within this feature are primarily derived from man-made fill, and consist of unstratified Clay Loam to a depth of 60cm with no mottling.

Gray Dogwood Cultural Thicket (CUT1-4): Polygons 9, 11, 28, 45

Gray Dogwood Cultural Thicket accounts for 8.3ha (3.7%) of the total study area among 4 polygons (Figure 2; polygons 9, 11, 28, 45). These features occur between the Conrail Drain and the rail line (polygon 9, 11), within the northwest corner of the study area (polygon 45), and in polygon 28 east of polygon 27 (Figure 2). Overall, the species composition within these features was similar to that of

polygon 16, but suggestive of slightly more moist soil conditions. Gray Dogwood was the most abundant shrub species rather than Dotted Hawthorn, and tree cover was slightly higher than polygon 16. The occurrence of taller tree species was infrequent and below 25%, and included Green Ash (*Fraxinus pennsylvanica*), Red Maple (*Acer rubrum*), Northern Pin Oak (*Quercus palustris*), Black Cherry (*Prunus serotina*), and American Elm. In moist areas shrubs species included White Meadowsweet (*Spirea alba*), Bebb's Willow, and Briar Rose (*Rosa rubiginosa var. rubiginosa*), while dominant ground cover species included various Aster species (*Symphyotrichum* spp), Blue Vervain (*Verbena hastata*), Begger's Ticks (*Bidens sp*), sedges (*Carex sp*), Common Boneset (*Eupatoreum perfoliatum*), Purple Loosestrife (*Lythrum salicaria*), Reed Canary Grass (*Phalaris arundinacea*), and Sensitive Fern (*Onoclea sensibilis*); drier areas had Canada Goldenrod (*Solidago canadensis*), Queen Anne's Lace, Common Plantain (*Plantago major*), and Black Knapweed (*Centaurea nigra*). The substrate within these communities were moist Clay Loam, though mottling was generally below 20cm.

Cultural Woodland (CUW1): Polygons 1, 15, 19, 22, 34, 35, 37

Cultural woodlands are treed areas characterized by canopy coverage between 35 – 60%. These communities often represent the stage of natural succession between cultural thicket and forest, but may also represent a disturbed or fragmented forest.

Cultural woodlands were prevalent throughout the study area, and accounted for 43ha (19%) of the total area among 7 polygons. These areas were complexed with Cultural Thicket (CUT1) due to the open canopy and dense shrub/understory layer of Hawthorn (e.g. *Crataegus punctata*, *Crataegus succulenta*), Gray Dogwood, Common Apple (*Malus pumila*), and Common Buckthorn in many areas. The relative cover of canopy species was below 60% in most areas, and generally consisted of Green Ash and Eastern Cottonwood, with lower abundance of American Elm, White Willow (*Salix alba*), and occasional Northern Pin Oak. Green Ash was the dominant understory species and was present as regenerating stems and as groundcover. Climbing Poison Ivy (*Toxicodendron radicans*) was abundant throughout. Herbaceous groundcover species included Broad-leaved Enchanter's Nightshade (*Circaea Canadensis*), Fowl Mannagrass (*Glyceria striata*), Field Horsetail (*Equisetum arvense*), Woodland Sedge (*Carex blanda*), Common Nipplewort (*Lapsana communis*), and Kidney-leaved Buttercup (*Ranunculus arbotivus*). The soil in these features was Clay or Silty Clay with mottling at or well below 20cm.

White Pine Coniferous Plantation (CUP3-2): Polygon 33

Coniferous plantations include vegetation communities where canopy cover is greater than 60% and the dominating canopy trees are conifers, typically planted in rows.

The small White Pine plantation (0.3 ha) was dominated by planted White Pine (*Pinus strobus*) with few other tree species aside from Green Ash. The understory and shrub layer were abundant with Climbing Poison Ivy, Thicket Creeper, and Choke Cherry, while Wild Red Raspberry (*Rubus idaeus ssp strigosus*), Avens species (*Geum* sp), Wild Strawberry, and Virginia Knotweed (*Persicaria virginiana*) were abundant in the ground layer.

3.2.1.3. TERRESTRIAL PLANT COMMUNITIES

Dry-Fresh Deciduous Forest Ecosite (FOD4): Polygons 36, 38, 40

This ELC Ecosite made up a relatively small portion of the study area at 1.7ha (0.76%), and was restricted to narrow features bordering the tributary at the east end of the study area (Figure 2). The canopy was dominated by Oak species (*Quercus rubra*, *Q. macrocarpa*, *Q. alba*), with less common Green and White Ash (*Fraxinus americana*), American Basswood (*Tilia americana*), Black Cherry, and Hickory (*Carya spp*). The understory and shrub layers were similar in composition, with the addition of Eastern Hop-Hornbeam (*Ostrya virigniana*), Hawthorns (*Crataegus spp*), Red Osier Dogwood (*Cornus stolonifera*), Climbing Poison Ivy, and Choke Cherry (*Prunus virigniana*). The groundcover was comprised of Northern Rough-leaved Goldenrod (*Solidago rugosa ssp. rugosa*), Graceful Sedge (*Carex gracillima*), Broad-leaved Enchanter's Nightshade, Asters, Avens, Large-leaved Aster (*Eurybia macrophylla*) and Hooked Agrimony (*Agrimonia grypocephala*). The soils were consistent with elsewhere in the study area, being composed of Silty Clay, though no mottling was observed above a depth of 60 cm.

3.2.1.4. WETLAND PLANT COMMUNITIES

Fresh-Moist Sugar Maple Deciduous Forest Ecosite (FOD6): Polygon 13

This small (1.8 ha) vegetation community (polygon 13) borders the north side of one of the large slough forest blocks (polygon 27), and is similar in composition to the upland areas within the slough forest complex (e.g. polygons 5 and 27), with species such as Sugar Maple (*Acer Saccharum*, American Beech (*Fagus grandifolia*), and Aspen (*Populus sp*).

Fresh-Moist Poplar Deciduous Forest (FOD8-1): Polygon 14

This small vegetation community (polygon 14; 0.9 ha) included a young Eastern Cottonwood canopy with American Elm, and an understory of Common Buckthorn, Gray Dogwood, and Highbush Cranberry (*Viburnum opulus ssp trilobum*). The groundcover was indicative of relatively moist soils, and included sedges (*Carex gracillima, C. leptonervia*), Rushes (*Juncus dudlei, Juncus tenuis*), Red-tinged Bulrush (*Scirpus microcarpus*), and Purple Loosestrife. Creeping Spike-rush (*Eleocharis palustris*), a rare species in Niagara Region, was also found within this polygon.

Oak Mineral Deciduous Swamp (SWD1): Polygons 5, 12, 27, 29, 31, 32)

Oak Mineral Deciduous Swamp occupied the largest proportion of the study area with a total of 95ha (42%) across six (6) polygons (Figure 2); polygons 5, 27, and 32 make up the core areas of the Niagara Falls Slough Forest Wetland Complex. This feature is characterized by a complex of Oak (*Quercus palustris*, *Q. macrocarpa*, *Q bicolor*) and Freeman Maple (*Acer x freemanii*) - dominant bottomland swamp (i.e. sloughs) with intervening Fresh-Moist Oak - Maple Deciduous Forest (FOD9-2) uplands composed of Red Oak, Sugar Maple, American Beech, American Basswood, Shagbark Hickory (*Carya ovata*), Bitternut Hickory (*Carya cordiformis*) Green Ash, American Elm, and White Oak. The subcanopy composition was similar, with the addition of Blue-beech (*Carpinus caroliniana*), Hawthorns, and a higher abundance of Maple, American Beech, and Green Ash than the canopy. The understory was abundant throughout with Spicebush (*Lindera benzoin*), Gray Dogwood, Chokecherry (*Prunus virginiana*), and Hawthorns. The groundcover vegetation was relatively diverse and included species such as Fowl Mannagrass, Sensitive Fern, various sedges, Climbing Poison Ivy, Wild Strawberry, Yellow Trout Lily, Wild Geranium (*Geranium maculatum*), White Trillium, Virginia Knotweed, Garlic Mustard

(Alliaria petiolata), Dewberry (Rubus pubescences and R. hispidus), Northeastern Lady Fern (Athyrium felix-femina var. angustum), and Spinulose Wood Fern (Dryopteris carthusiana).

In deeper slough vernal pools, several additional wetland vegetation types occur, including Buttonbush Mineral Thicket Swamp (SWT2-4) which is a provincially important vegetation community type, and Bulrush Mineral Shallow Marshes (MAS2-2). The Buttonbush Thicket Swamps are dominated by Buttonbush shrubs (*Cephalanthus occidentalis*), and include other abundant species such as Gray Dogwood and Silky Dogwood (*Cornus amomum*); surrounding canopy species include Northern Pin Oak, Black Willow (*Salix nigra*), and American Elm. Less common shrubs included Black Chokeberry (*Aronia melanocarpa*), Black Holly (*Ilex verticillata*), and Mountain Holly (*Ilex mucronata*). The groundcover was rich in graminoid species (e.g. *Eleocharis obtusa, C. lupulina, C. retrorsa, C. tenera, C. tribuloides, C. tuckermanii, Glyceria striata, G. septentrionalis, Juncus effusus, Scirpus pendulus*), as well as forbs such as Ditch Stonecrop (*Penthorum sedoides*), Spotted Water-Hemlock (*Cicuta maculata*), Hemlock Water-parsnip, and Northern Water-horehound (*Lycopus uniflorus*). The Bulrush Mineral Marshes were similar in species composition, though with much less canopy and shrub cover and had a larger percentage of open water with species such as Rufous Bulrush (*Scirpus pendulus*). Soils within this polygon consisted of Clay, Silty Clay, and Clay Loam with mottling at depths ranging from 12cm – 20cm.

Overall, the NFSFWC is an exceptional example of Carolinian slough forest, containing high diversity of native species and a variety of wetland habitats.

Pin Oak Mineral Deciduous Swamp (SWD1-3): Polygons 3, 4

This vegetation type was identified in two small slough polygons along the western edge of the study area, and included 1.7 ha (0.73%) of the total landcover of the study area. The species composition was largely similar to the sloughs within polygons 5 and 7 with a Pin Oak-dominant canopy, and contained similar marsh and thicket swamp inclusions but at a lower abundance.

Green Ash Mineral Deciduous Swamp (SWD2-2): Polygons 6, 8, 18, 26, 39

Green Ash Mineral Deciduous Swamp made up 28.8 ha (13%) of the study area across 5 polygons. These features are younger swamp forest than the NFSFWC, with some history of human disturbance such as drainage or filling. Much of the Green Ash-dominant canopy had died back, likely due to Emerald Ash Borer. Some areas of the canopy had a similar species composition to polygons 5 and 27, being Oak-dominant, but were generally younger and lacked the slough topography that defined those communities. Areas with less canopy contained Gray Dogwood Mineral Thicket Swamp (SWT2-9) inclusions, similar to polygons 9, 11, and 28, but with a slightly higher percentage of canopy cover. The subcanopy and understory layers were abundant with Green Ash, Freeman Maple, Pin Oak, and American Elm, as well as Smooth Arrowood (*Viburnum recognitum*), Downy Service Berry (*Amelanchier arborea*), Spîcebush, and Tatarian Honeysuckle (*Lonicera tatarica*). Abundant species in the groundcover included Broad-leaved Enchanter's Nightshade, Fowl Mannagrass, Northern Roughleaved Goldenrod, Sensitive Fern, Climbing Poison Ivey, Panicled Aster (*Symphyotrichum lanceolatum ssp. lanceolatum*), and Dark-green Bulrush (*Scirpus atrovirens*). The soils in these features consisted of Clay Loam with mottles from 15cm -25cm.

Willow Mineral Deciduous Swamp (SWD4-1): Polygons 2, 10, 17, 20, 21, 23, 24

Willow Mineral Deciduous Swamp (SWD4-1) made up approximately 5 ha (2.22%) of the study area and was found in seven (7) polygons. These features are dominated by White Willow and Eastern Cottonwood with Black Walnut (*Juglans nigra*) and American Elm, in both the canopy and subcanopy. The understory consists of Silky Dogwood (*Cornus amomum*) and Gray Dogwood, Highbush Cranberry, Hawthorns, Chokecherry and Bebb's Willow. The groundcover composition includes Wild Strawberry in upland areas, and in wetter areas Field Horsetail, Panicled Aster, Coltsfoot (*Tussilago farfara*), Northern Water-horehound, and Pin Oak seedlings. The soils within polygons 17, 21, 23, and 24 are similar to those of the CUW1-1 and SWD2-2 polygons. However, unlike the rest of the study area, the soils underlying polygon 17 consist of fine sandy loam with to a depth of 75cm with the water table at a depth of 22cm. No mottles were evident within 20cm.

3.2.2. PLANT INVENTORY

A total of 306 vascular plants were observed during the field investigations, and 285 of these were identified to the species level (Table 6). Of the identified species, 217 (75.87%) are considered native within Ontario (NHIC 2014). A summary of the rankings for vascular plant species is provided in Table 6; no federal or provincial Species at Risk were observed. The Floristic Quality Index (FQI) for the study area was 20.29 including native and exotic species, and was 65.51 for native species only. The relatively high FQI for native species indicates a high richness of species with specific habitat requirements, and is driven primarily by species observed within the NFSFWC polygons. The mean wetness index for the study area was -0.31.

Notable plant species findings included: Schreber's Aster (*Eurybia schreberi*), an Imperiled (S2) species within Ontario; and Honey-Locust (*Gleditsia triacanthus*), an Imperiled to Vulnerable (S2S3) species within Ontario. Both are rare within Niagara Region. The identification of Schreber's Aster was confirmed by John Semple (Pers. Comm.) of the University of Waterloo; he is an expert in Asteraceae taxonomy and identification. This species was detected in the upland areas of the Oak Mineral Deciduous Swamp (polygon 27; Map 2). The two Honey-Locust observations (one subcanopy tree approximately 20cm dbh, and 1 seedling) are likely naturally established trees based on them having large thorns (thorns are lacking in the commonly planted cultivars) (Farrar, 1995). Furthermore, the two trees were observed growing within an Oak Mineral Deciduous Swamp (polygon 31; Figure 2), which is consistent with the rich bottomland deciduous forests that native cultivars of this species are typically associated with (Farrar, 1995).

Based on communication with MNRF and NPCA staff, Black Gum (*Nyssa sylvatica*) and Round-leaved Greenbrier are also present in some areas within the NFSFWC; though they were not observed by D&A staff, they do have potential to be present on the property. A further 51 species that were detected are considered Rare or Uncommon in Niagara Region (Table 6).

Overall, the study area contains a rich assemblage of rare to uncommon native species with an affinity for high-quality wetland habitats.

3.2.3. SALAMANDER TRAPPING

The 2015 trapping program was successfully implemented within the seasonal migration of Ambystoma to breeding ponds. During reconnaissance to the study area on April 1, 2015, all of the

target pond surfaces were variously frozen between approximately 75 and 95%. One week later, after a warm rain, the first trap session was undertaken (April 7 and 8, 2015) followed by four additional trap sessions over the following twelve days (Table 7). *Ambystoma sp.* (later determined to be *Ambystoma laterale* and various unisexual polyploids) were captured in all but one of the target ponds (Table 7). No other salamander species were captured during the 2015 trapping program.

The number of captured salamanders was generally related to pond size and vegetation cover. Pond 1 and Pond 8 (Appendix B) had the highest number of captured salamanders; both exhibit considerable cover from Buttonbush (*Cephalanthus occidentalis*) and other emergent shrubs, which serve as egglaying sites for Blue-spotted salamanders (Talentino and Landre, 1991). These ponds were also relatively large and deep, providing more vernal pool habitat and ensuring that these habitat sites did not dry out too quickly for sufficient salamander development (JSRT, 2009). Pond 7 is a large pond, however it is not as deep as Pond 8 and has little cover for potential egg-laying sites. Pond 5 appeared to have sufficient emergent shrub cover for egg-laying sites, however it is directly adjacent to Oldfield Road; no salamanders were captured in this pond suggesting there may be road mortality, water quality issues, or other forms of encroachment, which reduce the suitability of Pond 5 as breeding habitat for Bluespotted Salamanders. Despite having substantial vegetation cover, numerous canisters, fuel drums and other debris were dumped in Pond 4, which may have inhibited the suitability of this pond for breeding Blue-spotted Salamanders.

Incidental species captured during trapping included Spring Peeper (*Pseudacris crucifer*), Stickleback (*Gasterosteidae sp*), and Predaceous Diving Beetle (*Dytiscidae sp*).

Salamander tail-tip samples analyzed by Dr. Bogart (University of Guelph) identified the captured individuals as *Ambystoma laterale* (Blue-spotted Salamanders) and unisexuals (Blue-Spotted Genome dominant) present within the study area (Appendix E). The unisexuals were both female Ambystoma polyploids with a predominance of *A. laterale* chromosomes, which require the presence of male *Ambystoma laterale* to stimulate reproduction (JSRT, 2009). The specific unisexuals present were the triploid *Ambystoma* (2) *laterale* – *jeffersonianum* or 'LLLJ' as well as the tetraploid *Ambystoma* (3) laterale – *jeffersonianum* or 'LLLJ'. No, endangered Jefferson Salamander (*Ambystoma jeffersonianum*) or Jefferson dominant polyploids were detected.

These results are consistent with the findings from previous salamander studies conducted at other areas on the site, including: OMNRF surveys conducted within the study area, which captured 37 salamanders within the *Ambysoma laterale* (LL) and *Ambystoma* (2) *laterale* – *jeffersonianum* (LLJ) genotypes (OMNRF, 2009), and results presented in a report by L. Campbell and Associates (2005). The 2015 findings indicate that all salamanders present are Blue-spotted (*A. laterale*) and Blue-spotted dominant polyploids and there is no evidence of Jefferson Salamander or Jefferson dominant polyploids within the study area (JSRT, 2009; COSEWIC, 2010).

3.2.4. NOCTURNAL AMPHIBIAN CALL SURVEYS

During the amphibian call survey, six anuran species were heard calling within the study area including Spring Peeper (*Pseudacris crucifer*), American Toad (*Anaxyrus americanus*), Western Chorus Frog (*Pseudacris triseriata*), Northern Leopard Frog (*Lithobates pipiens*), Gray Treefrog (*Hyla versicolor*), and Wood Frog (*Lithobates sylvaticus*). Survey locations are shown in Appendix B and survey results are summarized in the table below as well as in further detail in Appendix F.

Four species of anurans with moderate levels of calling activity were detected in the slough forest ponds along the north section of the property (NACS 1, 2, 13; Appendix B). Western Chorus Frog was most abundant; at least 11 individuals were detected in ponds close to Oldfield Road. Spring Peepers were heard calling throughout this area, but only a few individuals were recorded. American Toad was recorded deeper into the slough forest greater than 100m from the roadside survey stations. Only a couple of calling Gray Treefrogs were detected.

The west section of the property, north of the Conrail Drain (NACS 3, 4, 5; Appendix B) had a relatively low species richness (three species) of anurans and lower number of calling individuals. Spring Peepers were heard calling from southeast of NACS3 and east of NACS4; they were also heard calling just south and east of NACS5. Three Western Chorus Frogs were heard calling from within 100m east of NASC3 and NASC5. They were also heard calling from within 100m southeast of NASC 5. Gray Treefrogs were heard calling from all three stations at low abundances, one to three individuals.

Surveys along the south side of the Conrail Drain (NACS6 and 11; Appendix B) documented five (5) anuran species: Spring Peeper, American Toad, Western Chorus Frog, Northern Leopard Frog, and Gray Treefrog. Breeding habitat just southeast of NACS6 supported only small populations of Spring Peeper, Western Chorus Frog, Northern Leopard Frog, Gray Treefrog, and American. Two Western Chorus Frogs were heard calling from greater than 100m to the east. Only Gray Tree Frog was detected from the survey location in the central area of the property south of the Conrail Drain (NACS11). Other species such as Western Chorus Frog and Spring Peeper would likely have been detected if the location was included in the first round of surveys in April.

In central areas of the property south of the Conrail Drain (NACS12; Appendix B), only Gray Tree Frog was detected; in part because this location was included only after the first round of surveys. Despite being the only species detected, ponds in this area supported a high abundance of Gray Tree Frog. It is assumed that ponds in the slough forest east of NACS 12 also support other early breeding amphibians such as Spring Peeper and Western Chorus Frog.

Surveys within the south section of the property along Dorchester Road (NACS7, 8, 9, 10; Appendix B) documented five species: Spring Peeper, American Toad, Western Chorus Frog, Gray Treefrog, and Wood Frog. Spring Peepers were heard calling from NACS 7, 8, and 9; abundance ranged from a few individuals to a full chorus (north of NACS9). Many American toads were documented at NACS 8. Western Chorus Frog was very abundant just north of NACS9, but was recorded in low abundance across the other survey locations in this area of the property. Gray Treefrog were present along the southern border of the study area in low abundances. One Wood frog was heard calling north of NACS 9 at a distance greater than 100m.

3.2.5. BREEDING BIRD SURVEYS

A total of 67 species of birds was detected during the breeding bird surveys; 56 of these species were considered at least possibly breeding on the site. Nine (9) species were observed flying over the site only, and not considered breeding (code X – see Table 9), while two (2) species were categorized as migrants only: Blackpoll Warbler (*Setophaga striata*) and Wilson's Warbler (*Cardellina pusilla*). Of the 56 species of breeding birds, three of them are considered introduced (non-native): Rock Pigeon (*Patagioena livia*), European Starling (*Sturnus vulgaris*), and House Sparrow (*Passer domesticus*).

Of the remaining 53 species, four (4) of them are designated as Species at Risk (SAR): Eastern Wood-Pewee (*Contopus virens*), Acadian Flycatcher (*Empidonax virescens*), Barn Swallow (*Hirundo rustica*), and Wood Thrush (*Hylocichla mustelina*). Acadian Flycatcher is designated as "Endangered" at both a federal level and a provincial level, while Barn Swallow is considered "Threatened" at both levels (COSEWIC 2014, COSEWIC 2015, OMNRF 2015). Eastern Wood-Pewee is categorized as "Special Concern" at both federal and provincial levels and Wood Thrush is ranked as "Threatened" federally and "Special Concern" provincially (COSEWIC 2014, COSEWIC 2015, OMNRF 2015). An additional SAR – Chimney Swift (Chaetura pelagica) – was observed foraging over the site only (code X) and is not considered to be a breeding bird. Chimney Swift is designated "Threatened" in Ontario (OMNRF 2015) and Canada (COSEWIC 2014, COSEWIC 2015). See the "Species at Risk" section for further details.

At a provincial level, 52 of the 53 native breeding species have been assigned an Srank of either S4 or S5 by the Natural Heritage Information Centre (NatureServe Explorer, 2015), indicating that their provincial populations are "apparently secure" or "secure", respectively (NHIC 2015). The one exception is Acadian Flycatcher, which is ranked as S2S3, indicating that its provincial populations are considered "vulnerable".

At a regional level, 12 species – Northern Flicker (*Colaptes auratus*), Eastern Wood-Pewee (*Contopus virens*), Acadian Flycatcher (*Empidonax virescens*), Willow Flycatcher (*Empidonax traillii*), Wood Thrush (*Hylocichla mustelina*), Brown Thrasher (*Toxostoma rufum*), Blue-winged Warbler (*Vermivora cyanoptera*), Eastern Towhee (*Pipilo erythrophthalmus*), Field Sparrow (Spizella pusilla), Savannah Sparrow (*Passerculus sandwichensis*), Rose-breasted Grosbeak (*Pheucticus ludovicianus*), and Baltimore Oriole (*Icterus galbula*) – have been designated by Ontario Partners in Flight as priority landbird species in Bird Conservation Region (BCR) 13 (Lower Great Lakes - St. Lawrence Plain) (OPIF 2008); in Ontario, BCR 13 corresponds roughly with the area south of the Canadian Shield. The Ontario Landbird Conservation Plan, from which the list of priority landbird species was obtained, is a coalition of government agencies and organizations led by Environment Canada Ontario Region (EC) and the Ontario Ministry of Natural Resources and Forestry (OMNRF), in partnership with Bird Studies Canada (BSC).

At a local level, 36 of the 56 potentially native and non-native breeding species are considered common to very common within the Region of Niagara (Black and Roy 2010). The 20 exceptions are as follows:

- Uncommon Wood Duck (*Aix sponsa*), Wild Turkey (*Meleagris gallopavo*), Sharp-shinned Hawk (Accipiter striatus), Cuckoo sp. (*Coccyzus sp.*), Great Horned Owl (*Bubo virginianus*), Red-bellied Woodpecker (*Melanerpes carolinus*), Hairy Woodpecker (*Picoides villosus*), Willow Flycatcher (*Empidonax traillii*), White-breasted Nuthatch (*Sitta carolinensis*), Wood Thrush (*Hylocichla mustelina*), Brown Thrasher (*Toxostoma rufum*), Blue-winged Warbler (*Vermivora cyanoptera*), Eastern Towhee (*Pipilo erythrophthalmus*), Field Sparrow (*Spizella pusilla*), Swamp Sparrow (*Melospiza georgiana*), and Scarlet Tanager (*Piranga olivacea*);
- Uncommon to rare Orchard Oriole (Icterus spurius);
- Rare Tufted Titmouse (Baeolophus bicolor);
- Rare and local Yellow-throated Vireo (Vireo flavifrons);
- Extremely rare Acadian Flycatcher (Empidonax virescens).

The Ontario Ministry of Natural Resources (OMNR 2000) considers eight (8) of the species recorded as being area sensitive: Sharp-shinned Hawk, Hairy Woodpecker, Acadian Flycatcher, Yellow-throated Vireo, Tufted Titmouse, White-breasted Nuthatch, Savannah Sparrow, and Scarlet Tanager. This indicates that the species requires large areas of suitable habitat for its long-term survival and is therefore more sensitive to development.

For application of the Migratory Birds Convention Act (Government of Canada 1994a,b), 45 of the 56 species recorded as at least possibly breeding are protected by the Act. As such, it means that it is illegal to harm or kill these species, or to harm or destroy their nests and nesting habitat. The 11 species that are afforded no protection from the Act are Wild Turkey, Sharp-shinned Hawk, Rock Pigeon, Great Horned Owl, Blue Jay, American Crow, European Starling, Red-winged Blackbird, Common Grackle, Brown-headed Cowbird, and House Sparrow.

For application of the Endangered Species Act (ESA) (Government of Ontario, 2007) and the Species at Risk Act (SARA) (Government of Canada, 2002), five bird Species-at-Risk were detected on the site: Chimney Swift, Eastern Wood-Pewee, Acadian Flycatcher, Barn Swallow, and Wood Thrush. These five species are discussed below:

- Chimney Swift Designated "Threatened" in Ontario and Canada; one bird was recorded foraging overhead at PCS 29; this species was not considered to be breeding on the site as no suitable nesting habitat (e.g. chimneys) is present within it. There are likely suitable chimneys for breeding in nearby areas, accounting for the presence of this foraging bird.
- Eastern Wood-Pewee Designated "Special Concern" in Ontario and Canada; at least single birds were heard at 13 PCS's during the surveys; two of these stations had multiple birds singing and three additional birds were detected between stations.
- Acadian Flycatcher Designated "Endangered" in Ontario and Canada; one bird was heard singing at PCS 28 on May 29; it was not subsequently observed so this bird would not be considered territorial.
- Barn Swallow Designated "Threatened" in Ontario and Canada; one bird was seen foraging west of PCS 7 on May 28. There is no suitable breeding habitat (e.g. barns, bridges) and limited foraging habitat available on the site. There are suitable structures for breeding in the general vicinity so this species may occasionally be present foraging in any open habitats.
- Wood Thrush Designated "Threatened" in Canada and "Special Concern" in Ontario; this
 species was recorded at 18 PCS's, with three of the PCS having multiple birds. Three
 additional birds were detected between or beyond the point count stations.

For full details on the breeding bird surveys for this site, please see Table 9.

3.2.6. INCIDENTAL SPECIES

Two additional bird species were detected during other field surveys that are likely breeding. American Woodcock (Scolopax minor) was heard calling near during nocturnal amphibian surveys on April 19, 2015; it was near nocturnal amphibian station 6. A Wilson's Snipe (*Gallinago delicata*) was observed near pond 6 during salamander surveys on April 10, 2015. Neither of these species are considered SAR; both are common and widespread in southern Ontario. American Woodcock is considered common locally, while Wilson's Snipe is considered uncommon (Black and Roy 2010).

An unidentified owl (possibly Barred Owl, *Strix varia*) was observed on April 10, 2015; this species has no breeding status in Niagara Region (Black and Roy 2010). No owl calls were heard during subsequent evening site visits for amphibian surveys (April 19th, May 28th, June 24th, 2015). Given the relatively early spring date, it could have represented a spring migrant.

An unidentified turtle (likely Snapping Turtle, *Chelydra serpentina*, based on size) was observed by George Coker in the large pond in polygon 24 (Map 2) on June 11th, 2015 while conducting aquatic surveys of the site.

Other species and/or signs of species (e.g. tracks) that were observed while conducting site visits included:

- Coyote (Canis latrans)
- White-tailed Deer (Odocoileus virginianus)
- Eastern Chipmunk (*Tamias striatus*)
- Grey Squirrel (Sciurus carolinensis)
- Raccoon (*Procyon lotor*)
- Eastern Gartersnake (Thamnophis sirtalis sirtalis)

3.2.7. AQUATICS

3.2.7.1. SHORELINE

While not part of the subject property, the flattest and lowest areas along the shore of the Welland River, between the river shoreline and Dorchester Road, were examined in detail for Northern Pike spawning areas on April 11th, 2015 (Appendix 2). While there were shallow wet locations in this area, the shoreline was not overtopped by the adjacent river to provide access for Northern Pike, nor was there any evidence that overtopping had occurred recently (Photographs 1 and 2). This area was examined briefly during all subsequent site visits, and on no occasion was the bank overtopped or was there evidence of recent overtopping. Therefore it appears that this area did not provide Northern Pike spawning habitat in 2015, though there may be some potential spawning locations in shallow nearshore areas with dense rooted aquatic macrophytes in the Welland River.

3.2.7.2. WATERCOURSES

There are three main watercourses that provide potential access routes for fish from the Welland River and the Power Canal into the interior of the subject property. Watercourse 1 is approximately 212 m long and begins at an old concrete culvert outfall, which is believed to convey flows from a network of legacy pipes that drain surface water, via inlets and broken sections, from the elevated south-central portion of the subject property. The outfall, at the base of an embankment, feeds a small marsh pocket about 30 m long and 13 m wide, which drains through a shallow, 4 to 5 m wide, mud-bottomed watercourse (Photograph 3) to the Welland River. This watercourse appears to be a dug drainage ditch. It has a gentle gradient and in early April it had approximately 10 cm of water depth, which had dwindled to a few centimetres by June 11th, 2015 and was dry when examined on October 6th, 2015. Near its downstream end at its culvert beneath Dorchester Road, it has emergent and submergent

aquatic macrophytes (Photographs 4 and 5). Due to the low flow velocity and abundant aquatic plants in its lower section near the Welland River, as well the low gradient connection to the marsh at its upstream end, it is thought that this watercourse represents the best potential Northern Pike spawning habitat within or immediately adjacent to the subject property. Therefore, it was targeted twice for spawning observations (April 11th and 21st, 2015), and electrofished twice (June 11th and October 6 th, 2015) in search of young-of-the-year (YOY) Northern Pike (Table 10). No spawning Northern Pike, or YOY, were observed.

Watercourse 2 appears to originate within the Thundering Waters Golf Club grounds, northeast of the subject property. On all field investigations in 2015 there was flowing water in Watercourse 2: estimated at 15 L/s on April 12. When Watercourse 2 first enters the subject property it is a straight mud channel, approximately 140 m long, that has been historically channelized (Photograph 6). It then passes through a 70 m long culvert beneath the entrance of a derelict industrial site, but it is not perched at the downstream end and may not be a barrier to the upstream movement of fish. For 104 m downstream of the culvert the watercourse appears to be straightened with rip-rap along much of the banks. For the remaining 816 m to its confluence with the Welland River, Watercourse 2 appears to be a natural meandering channel set within a small valley feature. The upper 634 m of this section has a fairly uniform, shallow, clay/mud channel (Photograph 7). Coarse material mixed into the clay/mud substrate occurs where the watercourse passes the end of Don Murie Street, which may be the source of this material, and continues for approximately 100 m downstream (Photograph 8). Downstream to its confluence with the Welland River, the remaining 94 m of Watercourse 2 is dominated by soft clay mud.

Northern Pike, or any other fish, were not observed when Watercourse 2 was walked along its entire length in April 2015. There were no accessible wetlands along Watercourse 2, or any aquatic vegetation within the channel, that could be used for Northern Pike spawning. The general lack of instream cover within the largely featureless channel of Watercourse 2 likely contributes to the lack of fish observed. The clay/mud substrates through most of the watercourse would not provide spawning habitat for White Suckers or any of the other common fishes that spawn in flowing waters over coarse substrate. The only exception is the short section with coarse material near the downstream end of Watercourse 2, but no spawning fishes were observed here even though the water temperature was 12.2°C on April 21, which is within the range for White Sucker spawning (Scott and Crossman, 1973), and the White Sucker spawning run was well underway at locations in the Hamilton area. No fish were captured by electrofishing on June 21, even though a significant length of stream was fished. However, low numbers of six species, including YOY White Sucker, were captured in the same watercourse section on October 6, 2015 (Table 10). It is not known if the YOY suckers were spawned in this watercourse, or were spawned at some off-site location and have come to occupy this watercourse as a way of avoiding predatory fishes in the Welland River.

Watercourse 3, also known as the Conrail Drain, is a deep, straight, artificial channel, lined with rip-rap along its entire length (Photograph 9). There was some flow observed here during every field investigation in 2015, with, as expected, the highest flow in April and the lowest in October. Some sections of the watercourse had only interstitial flow through the rip-rap channel liner, which would severely inhibit the movement of large fish if they were to occur here. However, it is not expected that larger fish can move into this watercourse from its mouth at the Power Canal, because the steeper-sloped channel in this location, combined with failing and thick gabion rock baskets and the rooted vegetation through which all but the highest flows likely pass, will block upstream movement of large

fish (Photograph 10). It was not expected that a diverse fish community could exist under the observed condition of Watercourse 3, and electrofishing only captured Brook Stickleback (Table 10).

Watercourses 4 and 5 are short and have ephemeral flow, and do not appear to have a surface connection to the Power Canal.

Large areas of shallow surface water were observed within the subject property during April. These areas were inaccessible to fish, in particular Northern Pike which can utilize such habitats for spawning, and most were dry by June. One isolated pond was observed to remain permanently wet through 2015 and to support a community of aquatic plants, but no fish were found (Table 10).

In summary, watercourse feature that provide fish habitat are largely restricted to Watercourse 2 (WC3, Map 2). The fish captured during this investigation are considered common and not at risk in southern Ontario. Most of Watercourse 1 (WC1, Map 2) upstream of Dorchester Road provides seasonal, relatively unproductive, non-spawning habitat for fish. Watercourse 2 (WC2, Map 2) is a largely natural watercourse with permanent flow within a small valley feature. While habitat is generally simple and unproductive, it is presently unclear if it provides limited spawning habitat for off-site fishes; retention will likely be required. Watercourse 3 (WC 3, Map 3) is a constructed drainage ditch that provides no spawning habitat for off-site fishes, nor can it be accessed by large off-site fishes. It is relatively unproductive and only supports a sparse population of Brook Stickleback. Watercourses 4 and 5 (WC4 and WC5, Map 2) are not considered fish habitat at this time. The numerous shallow upland wet areas observed in April appeared to all be isolated from fish-occupied waters, and therefore are not expected to contribute to fish habitat on the subject property.

4. CHARACTERIZATION SUMMARY AND ENVIRONMENTAL MANAGEMENT STRATEGY RECOMMENDATIONS

The findings from the Natural Heritage Characterization Assessment will be used as input to an environmental management strategy for the Secondary Plan area. The strategy will consider the use of the mitigation hierarchy (i.e. avoidance, minimization, mitigation/rehabilitation, and compensation) in an adaptive approach, to define potential impacts that may result from the proposed land use, servicing, and transportation scenarios.

At this stage in the process, only a subset of avoidance areas have been identified. This includes natural features that have been designated as Provincially Significant Wetland (PSW) and Regional Environmental Protection Areas (EPA). In addition to the protected PSW/EPA areas, buffers will be recommended based on factors such as features' sensitivities, functional linkages to adjacent lands, and proposed land uses. Additional lands outside of the PSW may also be identified for protection where they complement the natural features that occur within the PSW, provide significant wildlife habitat, and/or provide important ecological linkage functions; on-going fieldwork, site analysis, and integration with other disciplines (e.g. system hydrology, transportation, land-use zoning) will provide insight into the management of impacts to natural heritage areas to ensure the long-term sustainability of the natural system.

The remaining steps of the mitigation hierarchy (minimize, rehabilitate/mitigate, and compensate) will be explored as the Secondary Plan process moves into the impact assessment and management phase. Early stages of the impact assessment phase will involve reviewing community masterplan concepts to identify potential impacts, establishing strategies for minimizing impacts, and determining the feasibility of enhancement, restoration, and compensation strategies to offset impacts to natural features that are currently outside of the identified protected areas.

The natural heritage elements and preliminary policy triggers that have been documented on the property and are present in Table 11, include the following:

- Provincially Significant Wetland Slough Forest
- Watercourse 2 and associated floodplain (WC2, Map 2)
- Endangered/Threatened Species at Risk and their associated habitat
- Old growth/Mature Forest Habitat
- Shrub/Early Successional Bird Habitat
- Bat Maternity Roost Habitat
- Mast Tree Habitat
- Amphibian Breeding Habitat (Woodland Type)
- Habitat for Provincially Rare and/or Species of Special Concern (Schreber's Aster, Honey Locust, Eastern Wood-Pewee, Wood Thrush, and Snapping Turtle)
- Reptile Hibernacula
- Deer Winter Congregation Areas
- Rare Vegetation Communities
- NPCA regulated wetlands
- ECA woodlands

Four core principles are proposed as a means to guide the process of developing an effective environmental management strategy to address the identified natural features and species within the Secondary Plan area:

- i) Consolidate and complement the existing protected areas where important natural features are adjacent to and contiguous with the PSW/EPA boundaries (e.g. mature woodlands/trees and/or habitat for species of conservation concern).
- ii) Promote opportunities/functional linkages of protected areas (known PSW/EPA areas, and those to be identified) using a combination of natural and anthropogenic corridors.
- iii) Identify areas on-site that provide practical opportunities for enhancement and/or compensation for natural areas that will be impacted in the context of future urban uses.
- iv) Outline appropriate inventory and monitoring methods to assess the environmental management strategy objectives and targets and establish adaptive measures.

To address the natural heritage features and species that are likely to trigger provincial and municipal policy, direction on the first three principles outlined in the foregoing is summarized in Table 11. Mitigation recommendations are provided, as well as key considerations in developing the environmental management strategy. Feedback and ultimately agreement from the various stakeholders and responsible authorities (e.g. MNRF, Region, City, and NPCA) on these recommendations will be critical to ensuring the environmental management strategy, land use plan, and supporting infrastructure are consistent with the overarching environmental policies that are relevant to the property.

5. REFERENCES

Black, J.E. and K.J. Roy (eds). 2010. Niagara Birds: a compendium of articles and species accounts of the birds of the Niagara Region in Ontario. 703 pages.

Cadman, M.D., D.A. Sutherland, G.G. Beck, D. Lepage, and A.R. Couturier, eds. 2007. Atlas of the Breeding Birds of Ontario, 2001 – 2005. Bird Studies Canada, Environment Canada, Ontario Field Ornithologists, Ontario Ministry of Natural Resources, and Ontario Nature, Toronto, xxii + 706 pp.

Chapman, L.J. and D.F. Putnam. 2007. Physiography of southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 228.

COSEWIC (Committee on the Status of Endangered Wildlife in Canada). 2010. Assessment and Status Report on the Jefferson Salamander (Ambystoma jeffersonianum) in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. 49 pp

COSEWIC (Committee on the Status of Endangered Wildlife in Canada). 2014. Canadian Wildlife Species at Risk. October 2014. Committee on the Status of Endangered Wildlife in Canada. Web site: http://www.cosewic.gc.ca/eng/sct0/rpt/rpt_csar_e.cfm [accessed 5 October 2015]

COSEWIC (Committee on the Status of Endangered Wildlife in Canada). 2015. Canadian Wildlife Species at Risk. October 2015. Committee on the Status of Endangered Wildlife in Canada. Web site: http://www.cosewic.gc.ca/eng/sct1/index_e.cfm

COSEWIC (Committee on the Status of Endangered Wildlife in Canada). 2015. COSEWIC Wildlife Species Assessments (detailed version), May 2015. Available at: http://www.cosewic.gc.ca/rpts/Detailed species assessments e.pdf

Dougan & Associates (D&A). 2015. Mortality Incident Report – Ambystoma Trapping Surveys. Submitted to the OMNRF on April 16, 2015. 2 pp.

Farrar, J.L. 1995. Tree in Canada. Fitzhenry and Whiteside Ltd and Canadian Forest Service. 502 pp.

Government of Ontario. 2007. Endangered Species Act, Statutes of Ontario (2007, c. 6). Retrieved from the ServiceOntario e-Laws website: http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_07e06_e.htm

Government of Canada. 1994a. Migratory Birds Convention Act, Statutes of Canada (1994, c. 22). Retrieved from the Department of Justice Laws Website: http://laws-lois.justice.gc.ca/eng/acts/M-7.01/FullText.html

Government of Canada. 1994b. Migratory Birds Regulations, Consolidated Regulations of Canada (1994, c. 1035). Retrieved from the Department of Justice Laws Website: http://laws-lois.justice.gc.ca/eng/regulations/C.R.C., c. 1035/FullText.html

Government of Canada. 2002. Species at Risk Act, Statutes of Canada (2002, c. 29). Retrieved from the Department of Justice Laws Website: http://laws-lois.justice.gc.ca/eng/acts/S-15.3/index.html

Lee, H., W.D. Bakowsky, J. Riley, J. Bowles, M. Puddister, P. Uhlig and S. McMurray. 1998. Ecological Land Classification for Southern Ontario: First Approximation and Its Application. Ontario Ministry of Natural Resources, Southcentral Science Section, Science Development and Transfer Branch. SCSS Field Guide FG-02.

Jefferson Salamander Recovery Team (JSRT). 2009. Draft Recovery Strategy for the Jefferson Salamander (Ambystoma jeffersonianum) in Ontario. Ontario Recovery Strategy Series. Prepared for the Ontario Ministry of Natural Resources, Peterborough, Ontario. vi + 27 pp.

L Campbell and Associates. 2005. Salamander Study, Preliminary Report. Draft Report 6 pp.

Menzies, J. 2001. The quaternary sedimentology and stratigraphy of small ice-proximal, subaqueous grounding-line moraines in the central Niagara Peninsula, Southern Ontario. Geographie physique et Quaternaire, 55: 75-86.

NatureServe Explorer. 2015. National and Subnational Conservation Status Definitions web page. Available at: http://explorer.natureserve.org/nsranks.htm

NHIC (Natural Heritage Information Centre). 2014. Ontario Vascular Plant Species List. April 2014. Ontario Ministry of Natural Resources. https://contrib.ontario.ca/environment-and-energy/get-natural-heritage-information

NHIC (Natural Heritage Information Centre). 2015. NHIC Species Lists. Available at: http://www.ontario.ca/page/get-natural-heritage-information

Niagara Peninsula Conservation Authority (NPCA). 2010. Natural Area Inventory, Volume 1. Niagara Peninsula Conservation Authority. Welland, ON.

Oldham M. J., Bakowsky W. D., Sutherland D. A. 1995. Floristic Quality Assessment System for Southern Ontario. Natural Heritage Information Center, OMNR (Ontario Ministry of Natural Resources). Peterborough, Ontario. 69 pp.

Oldham, M.J. 2010. Checklist of the Vascular Plants of Niagara Regional Municipality, Ontario. Ontario Natural Heritage Information Centre, Ministry of Natural Resources. Peterborough, Ontario. 223pp

OMMAH (Ontario Ministry of Municipal Affairs and Housing). 2005. Provincial Policy Statement. 37 pp. Available at: http://www.mah.gov.on.ca/Asset1421.aspx

OMNR (Ontario Ministry of Natural Resources). 2000. Significant Wildlife Habitat Technical Guide. 151 pp.

OMNRF (Ontario Ministry of Natural Resources and Forestry). 2009. Unpublished salamander trapping data from Dorchester Road property, provided by Graham Buck (OMNRF, Guelph District).

OMNRF (Ontario Ministry of Natural Resources and Forestry). 2015. Species at Risk in Ontario (SARO) List. Updated October 1, 2015. Available at: http://www.ontario.ca/environment-and-energy/species-risk-ontario-list

Ontario Geological Survey. 2010. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-REV

Ontario Geological Survey. 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release---Data 126-Revision 1.

Ontario Nature. 2015. Reptile and Amphibian Atlas Program: accessed at: http://www.ontarionature.org/protect/species/herpetofaunal_atlas.php

OPIF (Ontario Partners in Flight). 2008. Ontario Landbird Conservation Plan: Lower Great Lakes/St. Lawrence Plain, North American Bird Conservation Region 13. Ontario Ministry of Natural Resources, Bird Studies Canada, Environment Canada. Draft version 2.0. Available at: http://www.bsc-eoc.org/PIF/PIFOBCR13Plan.pdf

Scott, W.B and E.J. Crossman. 1973. Freshwater fishes of Canada. Fisheries Research Board of Canada. Bulletin 183. Ottawa, Canada. 966 p.

Stebbins, R. and Cohen, N.W. 1995. A Natural History of Amphibians. Princeton University Press 316 pp.

Talentino, K. A., E. Landre. 1991. Comparative development of two species of sympatric Ambystoma salamanders. Journal of Freshwater Ecology, 6(4), 395-401.



Table 1: ELC, Plant inventory, and PSW delineation site visit summary

Purpose	Date	Surveyors
Spring ELC and Plant Inventory	May 6th, 2015	Dylan White, Zack Harris
Spring ELC and Plant Inventory	May 8th, 2015	Dylan White, Kristen Beauchamp
Spring ELC and Plant Inventory	May 15th, 2015	Kristen Beauchamp, Zack Harris
Summer ELC and Plant Inventory	June 3rd, 2015	Steve Hill, Zack Harris
Summer ELC, Wetland Delineation, Summer Plant Inventory	August 17th, 2015	Dylan White, Zack Harris
Summer ELC and Wetland Delineation, Summer Plant Inventory	August 21, 2015	Dylan White, Zack Harris
Summer ELC and Wetland Delineation, Summer Plant Inventory	August 26th, 2015	Dylan White, Kristen Beauchamp
Summer ELC and Wetland Delineation, Summer Plant Inventory	August 27th, 2015	Dylan White, Kristen Beauchamp
Summer ELC and Wetland Delineation, Summer Plant Inventory	August 28th, 2015	Dylan White, Kristen Beauchamp
Fall ELC and Plant Inventory	September 28th, 2015	Dylan White, Zack Harris
Fall ELC and Plant Inventory	October 5th, 2015	Dylan White, Zack Harris

Table 2: Salamander trapping summary

able 2. Salamanaci (rapping Salimar)					
Date	Survey	Time	Weather	Surveyors	
April 1, 2015	Site Recon.	15:00-18:30	5°C, clear	Dylan White	
April 7, 2015	Trap Set 1	17:00-20:00	3°C, overcast, light breeze	Dylan White	
April 8, 2015	Trap Check 1	06:30-11:00	5°C, overcast	Kristen Beauchamp, Dylan White, Helen Hemansen (OMNRF)	
April 9, 2015	Trap Set 2	17:30-20:30	11°C, rain, calm	Dylan White	
April 10, 205	Trap Check 2	06:15-11:15	10°C, partly cloudy, light breeze	Kristen Beauchamp, Karl Konze, Dylan White	
April 12, 2015	Trap Set 3	18:00-20:00	9°C, clear	Dylan White	
April 13, 2015	Trap Check 3	05:45-8:45	8°C, clear, sunny	Kristen Beauchamp, Dylan White	
April 16, 2015	Trap Set 4	18:00-20:00	12°C, partly cloudy, breeze	Dylan White	
April 17, 2015	Trap Check 4	06:00-9:30	10°C, partly cloudy	Kristen Beauchamp, Dylan White	
April 19, 2015	Trap Set 5	18:00-20:00	12°C, partly cloudy	Dylan White	
April 20, 2015	Trap Check 5 and Trap removal	06:00-09:30	13°C, partly cloudy	Kristen Beauchamp, Dylan White	



Table 3: Nocturnal amphibian survey summary

Date (2015)	Surveyors	Station ID	Start Time (p.m.)	Noise Index (as per NAAMP)	Wind (Beaufort Scale)	Temperature (°C)	Precipitation
		1	10:15	2	1-2	8-10	None
		2	10:25	2	1-2	8-10	None
		3	10:38	2	1-2	8-10	Light rain
		4	10:43	2	1-2	8-10	Light rain
April	Dylan White	5	10:52	2	1-2	8-10	Light rain
19		6	11:00	2	1-2	8-10	Light rain
		7	11:10	2	1-2	8-10	Light rain
		8	11:20	2	1-2	8-10	Light rain
		9	11:30	2	1-2	8-10	Light rain
		10	11:37	2	1-2	8-10	Light rain
		1	12:15	2-3	0	16.0	Humid
		2	12:05	2-3	0	14.0	Humid
		3	11:55	2-3	0	14.0	Humid
		4	11:45	2-3	0	14.0	Humid
		5	11:37	2-3	0	15.8	Humid
		6	10:28	2-3	1	15.0	Humid
May	Zack Harris	7	11:28	2-3	0	15.8	Humid
28	Kristen Beauchamp	8	11:20	2	1	15.0	Humid
		9	11:10	2	1	15.0	Humid
		10	11:00	2	1	15.0	Humid
		11	9:23	2	0	19.5	None
		12	9:59	2	0	19.5	None
		13	12:21	2	1	16.0	Humid
		1	12:04	3	0	17.8	Humid
		2	11:55	3	0	17.8	Humid
		3	11:46	3	0	17.8	Humid
		4	11:36	3	0	17.8	Humid
		5	11:28	3	0	17.8	Humid
June 24		6	10:36	3	0	16.5	Humid
		7	11:18	3	0	16.5	Humid
		8	11:11	2-3	0	16.5	Humid
		9	11:00	2	0	16.5	Humid
		10	10:49	2-3	0	16.5	Humid
		11	9:48	2	0	16.5	Humid
		12	10:16	2	0	16.5	Humid
		13	12:12	2	0	17.5	Humid

Noise Index as per North American Amphibian Monitoring Program (NAAMP) Frog call survey instructions http://www.massnaamp.org/online docs/NAAMP%20MA%20Datasheet%202012.pdf)

nttp.//t	Tittp://www.massnaamp.org/omme_docs/NAAMF 7020MA7020Datasneet70202012.pdi/			
Code	Indicator			
0	No appreciable effect (e.g. owl calling)			
1	Slightly affecting sampling (e.g. distant traffic, dog barking, 1 car passing)			
2	Moderately affecting sampling (e.g. nearby traffic, 2 – 5 cars passing)			
3	Seriously affecting sampling (e.g. continuous traffic nearby, 6 – 10 cars passing)			
4	Profoundly affecting sampling (e.g. continuous traffic passing, construction noise)			

Popufo	Populart Wind Scale as described assorting to the MMD (PSC 2000)						
	Beaufort Wind Scale as described according to the MMP (BSC, 2009) Code Wind Speed Indicator						
	(kph)						
0	0 – 2	Calm; smoke rises vertically					
1	3 – 5	Light air movement; smoke drifts					
2	6 – 11	Slight breeze; wind felt on face, leaves rustle					
3	12 – 19	Gentle breeze; leaves and small twigs in constant motion					
4	20 – 30	Moderate breeze; small branches are moved, raises dust & loose paper					
5	31 – 39	Fresh breeze; small trees in leaf begin to sway; crested wavelets form					
6	40 – 50	Strong breeze; large branches in motion.					



Table 4: Breeding bird survey summary

Table 4. Diee	able 4. Diceaning bird survey summary						
Date	Observer	Time	Weather Conditions	Purpose			
May 20, 2015	Karl Konze	05:23 –	Partly cloudy, light west-northwest	Breeding bird survey #1			
IMay 28, 2015		08:59	winds, 16 – 20°C	(PCS 1 – 16)			
May 20, 2015	Karl Kanza	05:19 –	Partly cloudy, light south winds, 15 -	Breeding bird survey #1			
May 29, 2015	Kari Konze	09:28	20°C	(PCS 17 – 32)			
June 4, 2015	Karl Konze	05:15 –	Clear, calm, 11 – 19°C	Breeding bird survey #2			
		09:03	Clear, Callii, 11 – 19 C	(PCS 1 – 16)			
June 5, 2015	Karl Konze	05:20 –	Double double soles 17 2190	Breeding bird survey #2			
		09:32	Partly cloudy, calm, 17 – 21°C	(PCS 17 – 32)			

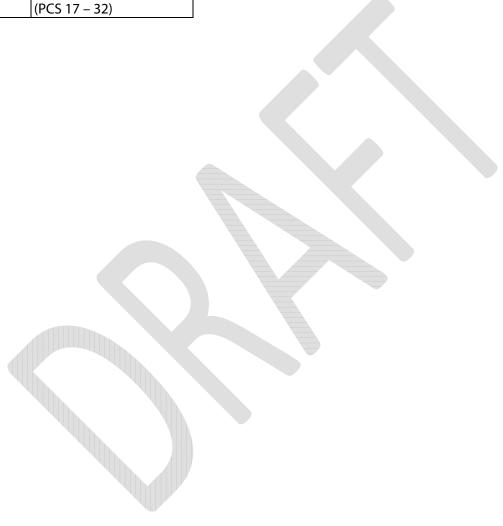


Table 1: Summary of ELC Ecosite and Vegetation Types observed within study area.

ELC Community Code (Dominant)	ELC Community Description	Number of Polygons	Total Area (ha)	Percent
ANTH	Anthropogenic	2	3.62	1.61
CUM1-1	Cultural Meadow	5	19.34	8.59
CUP3-2	White Pine Coniferous Plantation	1	0.33	0.15
CUT1	Mineral Cultural Thicket	1	15.68	6.96
CUT1-4	Gray Dogwood Cultural Thicket	4	8.27	3.68
CUW1	Mineral Cultural Woodland	7	43.23	19.21
FOD4	Dry – Fresh Deciduous Forest	4	1.70	0.76
FOD6	Fresh – Moist Sugar Maple Deciduous Forest	1	1.76	0.78
FOD8-1	Fresh – Moist Poplar Deciduous Forest	1	0.92	0.41
SWD1	Oak Mineral Deciduous Swamp	7	94.80	42.12
SWD1-3	Pin Oak Mineral Deciduous Swamp	3	1.65	0.73
SWD2-2	Green Ash Mineral Deciduous Swamp	5	28.77	12.78
SWD4-1	Willow Mineral Deciduous Swamp	6	5.00	2.22
	·	47	225.07	100.00

Table 6: Summary of plant species observed within ELC polygons. Grey highlighting identifies species that are uncommon or rare in Niagara; those with asterisk (*) represent those that are provincially rare (S2 or S2S3).

Scientific Name	Common Name	1 2	2 3	4 5	6	7	8 9	10	11	12	2 14	15	16	17	18	19	20	21	22	23	24	25 2	5 27	28	29	30 3	31	33
Acer negundo	Manitoba Maple	х										х															Т	
Acer rubrum	Red Maple														Х								х	Х				
Acer saccharinum	Silver Maple			х						х													х					
Acer saccharum	Sugar Maple			х х						х													х					
Acer x freemanii	Hybrid Maple (Acer rubrum X Acer saccharinum)		х	хх	х	х									Х								х					
Achillea millefolium	Common Yarrow						х					х												х				
Agrimonia gryposepala	Hooked Agrimony	х		хх	х	х	x		х	Х			Х										Х			X :	х	
Agrostis gigantea	Redtop												Х															
Agrostis stolonifera	Creeping Bentgrass)																х					
Alisma triviale	Northern Water-plantain		х	хх													х											
Alliaria petiolata	Garlic Mustard	х	х	хх			х		х	х		х			Х								х			x	х	
Allium tricoccum var. tricoccum	Wild Leek			х																								
Ambrosia trifida	Great Ragweed			х																								
Amelanchier arborea	Downy Serviceberry	х		x	х		х		х	Х																		
Antennaria howellii ssp. canadensis	Canada Pussytoes												Х															
Apocynum androsaemifolium	Spreading Dogbane																							Х				
Apocynum cannabinum	Hemp Dogbane																					х						
Arisaema triphyllum	Jack-in-the-pulpit			хх	x					Х		х			Х	Х			х									
Aronia melanocarpa	Black Chokeberry																						х					
Asclepias incarnata	Swamp Milkweed		х	хх										х			Х						х					
Asclepias syriaca	Common Milkweed						х																	х				
Asparagus officinalis	Garden Asparagus						x																					
Athyrium filix-femina var. angustum	Northeastern Lady Fern			х																			х					
Atriplex prostrata	Creeping Saltbush																									x :	х	
Berberis thunbergii	Japanese Barberry			x x																			х					
Bidens cernua	Nodding Beggarticks																						х	х		x :	х	
Bidens comosa	Three-parted Beggarticks			х																								
Bidens connata	Purple-stemmed Beggarticks		х	х																								
Bidens frondosa	Devil's Beggarticks																							х				
Boehmeria cylindrica	False Nettle		х	х								Х											х					
Brassica nigra	Black Mustard						х					Х																
Caltha palustris	Yellow Marsh Marigold			х																								
Calystegia sepium	Hedge False Bindweed												х															
Cardamine concatenata	Cut-leaved Toothwort			х																								
Cardamine douglassii	Limestone Bittercress			х																								
Cardamine pensylvanica	Pennsylvania Bittercress																						х					

Scientific Name	Common Name	1 2	3	4 5	6	7 8	9	10	11 12	14	15	16	17 1	18	19	20	21 2	2 23	24	25	26	27 2	8 2	9 30) 3:	1 33
Carduus nutans ssp. nutans	Nodding Thistle																			х						
Carex arcta	Northern Clustered Sedge														Х											
Carex bebbii	Bebb's Sedge													х												
Carex blanda	Woodland Sedge)	х						х				х							х				
Carex canescens	Hoary Sedge													х												
Carex comosa	Bristly Sedge																					Х				
Carex crinita	Fringed Sedge		Х	х	[)													х				
Carex flava	Yellow Sedge											х	х													
Carex garberi	Elk Sedge												х													
Carex gracillima	Graceful Sedge	х		>						х	х			х								х		х	: x	
Carex grayi	Asa Gray Sedge																					х				
Carex hystericina	Porcupine Sedge																					х				
Carex intumescens	Bladder Sedge			>																		х				
Carex lacustris	Lake-bank Sedge															х						х				
Carex leptonervia	Finely-nerved Sedge									х			х													
Carex lupulina	Hop Sedge	x)										х								х				
Carex pallescens	Pale Sedge																					х				
Carex pellita	Woolly Sedge																			Х						
Carex prasina	Drooping Sedge													х												
Carex projecta	Necklace Sedge)																		х				
Carex pseudocyperus	Cyperus-like Sedge																					х				
Carex radiata	Stellate Sedge			Х	1	x	(х				
Carex retrorsa	Retrorse Sedge																					х				
Carex stipata	Awl-fruited Sedge	X											х	х												
Carex stricta	Tussock Sedge)												х										
Carex tenera	Slender Sedge			x x																		х				
Carex tribuloides	Blunt Broom Sedge															х						Х				
Carex tuckermanii	Tuckerman's Sedge		Х	х																						
Carex vulpinoidea	Fox Sedge)										х		х										
Carpinus caroliniana	Blue-beech			х					Х													Х				
Carya cordiformis	Bitternut Hickory		Х	х											Х							х				
Carya ovata	Shagbark Hickory			х	х				х					х	Х		2	<				х				
Centaurea nigra	Black Knapweed)	(
Cephalanthus occidentalis	Common Buttonbush		х	х																		х				
Cerastium fontanum	Common Mouse-ear Chickweed																					х				
Chelidonium majus	Greater Celadine																					х				
Chelone glabra	White Turtlehead			>																						
Cichorium intybus	Chicory					х																				

Scientific Name	Common Name	1 2	3	4 5	6	7 8	9	10 1	1 12	14	15	16	17 18	19	20	21 2	22 23	3 24	25	26	27	28	29	30	31	33
Cicuta maculata var. maculata	Spotted Water-hemlock			х	: x						х				х						х					
Cinna latifolia	Drooping Woodreed			х х									х								х					
Circaea canadensis	Broad-leaved Enchanter's Nightshade	х			х	х			х		х		х	х							х			х	х	
Cirsium vulgare	Bull Thistle			х									х													
Claytonia caroliniana	Carolina Spring Beauty								Х																	
Claytonia virginica	Narrow-leaved Spring Beauty			х					Х																	
Convallaria majalis	European Lily-of-the-valley			х																						
Convolvulus arvensis	Field Bindweed																		х							
Cornus amomum	Silky Dogwood	хх	х	х									Х								х					
Cornus racemosa	Gray Dogwood	х	х	х	x	x x	х	×	χ x	х	х		х х	х	х		х		х	х	х	Х				
Cornus stolonifera	Red-osier Dogwood	х	х	х	Х	хх	х	х	(х	х	х х		х					х	х	Х		х	х	
Crataegus monogyna	English Hawthorn														Х											
Crataegus punctata	Dotted Hawthorn	х			х	x					х	х	х	х					х		х			х	х	
Crataegus succulenta	Fleshy Hawthorn	х												х												
Dactylis glomerata	Orchard Grass										х															
Daucus carota	Wild Carrot					х	х				х	х							х			х				
Dryopteris carthusiana	Spinulose Wood Fern		4	х																						
Elaeagnus angustifolia	Russian Olive				4	х						х														
Eleocharis erythropoda	Red-stemmed Spike-rush												х													
Eleocharis obtusa	Blunt Spike-rush		х	х																	х					
Eleocharis ovata	Ovate Spike-rush										х										х					
Eleocharis palustris	Creeping Spike-rush									х																
Elymus canadensis	Canada Wildrye																					х				
Elymus hystrix	Bottlebrush Grass			х																						
Elymus virginicus var. virginicus	Virginia Wildrye			х																	х					
Epifagus virginiana	Beechdrops			x	,																					
Epilobium ciliatum	Hairy Willowherb	x																								
Equisetum arvense	Field Horsetail			х	,	х	х				х	х	х х	х			х									
Erigeron annuus	Annual Fleabane										х															
Erigeron philadelphicus	Philadelphia Fleabane													х												
Erythronium americanum	Yellow Trout-lily			х	x	х			х																	
Eupatorium perfoliatum	Common Boneset			х	,																х	Х		х	х	
Eurybia macrophylla	Large-leaved Aster			х х																	х			х	х	
Eurybia schreberi*	Schreber's Aster*																				х					
Euthamia graminifolia	Grass-leaved Goldenrod												х						х			х				
Eutrochium maculatum var. maculatum	Spotted Joe Pye Weed												х		Х		х									
Fagus grandifolia	American Beech			х х									х								х					
Fragaria virginiana	Wild Strawberry	х	х	х х	x	хх	х	х	(x		х	х	х х				х		х		х			х	х	х

Scientific Name	Common Name	1 2	2 3	4	6	7	8	9 1	10	11	12 1	14 1	5 16	17	18	19	20	21	22	23	24	25 2	6 27	7 28	29	30	31	33
Frangula alnus	Glossy Buckthorn											,	,	х	х			х	х	Х	х							
Fraxinus americana	White Ash)	(х	х	
Fraxinus pennsylvanica	Green Ash	х	х	x >	х	х	x 2	х		х	х	>	<	х	х	Х	х	х	х	Х	Х	,	x x	х		х	х	
Galium obtusum	Blunt-leaved Bedstraw																						х					
Galium palustre	Marsh Bedstraw		х	x >	(х											
Geranium maculatum	Spotted Geranium			,	(х	х				х								х					
Geum fragarioides	Barren Strawberry)	(
Geum laciniatum	Rough Avens			х																								
Gleditsia triacanthos*	Honey-locust*																										х	
Glyceria septentrionalis	Eastern Mannagrass								7														х					
Glyceria striata	Fowl Mannagrass	х	х	x >	3										х	Х	х	Х		Х	х		х			х	х	
Hamamelis virginiana	American Witch-hazel				4																		х					
Hemerocallis fulva	Orange Daylily											>	<															
Hydrophyllum virginianum	Virginia Waterleaf										х																	
Hypericum perforatum	Common St. John's-wort	х)								>	κ x															
Hypericum punctatum	Common St. John's-wort		#)																								
llex mucronata	Mountain Holly																						х					
Ilex verticillata	Black Holly																						х					
Impatiens capensis	Spotted Jewelweed)								>	<										х			х	х	ļ
Iris versicolor	Harlequin Blue Flag		х	x >																								
Juglans nigra	Black Walnut	x x													х									х				
Juncus dudleyi	Dudley's Rush											х												х				
Juncus effusus	Soft Rush	x	Х	х																			х					
Juncus tenuis	Path Rush											х																
Juniperus virginiana	Eastern Red Cedar					х							х															
Lamium amplexicaule	Common Deadnettle													Х														
Laportea canadensis	Wood Nettle																									х	х	
Lapsana communis	Common Nipplewort	x										>	<		х	Х			х				х			х	х	Х
Leersia oryzoides	Rice Cutgrass		Х	x >	(
Leersia virginica	Virginia Cutgrass																						х					
Leucanthemum vulgare	Oxeye Daisy											>	κ x									х						
Ligustrum vulgare	European Privet	х													х	Х												
Linaria vulgaris	Butter-and-eggs											>	<															
Lindera benzoin	Spicebush	х	х	x >							х				х	Х			х				х				¬	
Lonicera tatarica	Tartarian Honeysuckle	хх	x	х	Х		х)	х	х	х	>	<		х	Х							Х	Х				
Lycopus americanus	American Water-horehound)	(Х							Х				
Lycopus uniflorus	Northern Water-horehound		х	x >								>	(х									х					
Lysimachia nummularia	Creeping Jennie)								>	<											х		х	х	

Scientific Name	Common Name	1 2	3	4 5	6	7 8	8 9	10	11	12	14 1	15 16	5 1	7 18	19	20	21	22	23	24	25 26	27	28	29	30 3	1 3
Lythrum salicaria	Purple Loosestrife		х	хх		х					х			х								Х	х		\top	
Maianthemum canadense	Wild Lily-of-the-valley			х																				1		
Maianthemum racemosum	False Solomon's-seal																					х		1		
Maianthemum stellatum	Star-flowered False Solomon's-seal			Х																		х				
Malus coronaria	Sweet Crabapple																				х					
Malus pumila	Common Apple	х		х		,	x								х									1		
Medicago lupulina	Black Medic																					х		1		
Melilotus albus	White Sweet-clover																				х			ĺ		
Melilotus officinalis	Yellow Sweet-clover											х												1		
Mentha arvensis	Field Mint)	с х										1		
Narcissus pseudonarcissus	Commom Daffodil								х															1		
Onoclea sensibilis	Sensitive Fern		х	x x	x					х		х		х	х		х		х	х		х	х	1		
Osmunda regalis	Royal Fern			х																				1		
Osmundastrum cinnamomeum	Cinnamon Fern			х																				1		
Ostrya virginiana	Eastern Hop-hornbeam																					х		1	хх	,
Oxalis montana	Common Wood-sorrell			х								х												1		
Parthenocissus inserta	Thicket Creeper	х	4	хх		,	х х			х		х)	κ x	х			х				х	х	1	х	х х
Penstemon digitalis	Foxglove Beardtongue		х	х																				х		
Penthorum sedoides	Ditch-stonecrop		х	х		4						х						х					х	1		
Persicaria hydropiper	Marshpepper Smartweed		х	х	M		_																х	1		
Persicaria sagittata	Arrow-leaved Smartweed			х																						
Persicaria virginiana	Virginia Smartweed	x	х	хх	x					х		х		х								х		1	х	,
Phalaris arundinacea	Reed Canary Grass	X	х	хх																		х	х		х	,
Phragmites australis ssp. americanus	American Reed					х																х				
Phragmites australis ssp. australis	European Reed						х	х	х	х											х			1		
Pilea pumila	Canada Clearweed			х																				1		
Pilosella caespitosa	Meadow Hawkweed																					х				
Pinus sylvestris	Scotch Pine	x	х	х																				1		
Plantago lanceolata	English Plantain											х)	<							х					
Plantago major	Common Plantain						х															х	х			
Poa compressa	Canada Bluegrass											х												1		
Poa nemoralis	Woods Bluegrass			х																				1		
Poa pratensis ssp. pratensis	Kentucky Bluegrass											х									х			1		
Podophyllum peltatum	May-apple			х						х					х									1		
Polygonum achoreum	Leathery Knotweed			х																						
Polygonum aviculare ssp. aviculare	Prostrate Knotweed																				Х					
Polygonum virginianum	Virginia Knotweed																									х
Populus deltoides ssp. deltoides	Eastern Cottonwood	хх		х		x >	х х	Х	х	х	х	х х)	с х	х	х	х	х	х	х	х	х				

Scientific Name	Common Name	1 2	3	4 5	6	7 8	9	10	11	12	14 1	5 16	17	18	19	20	21 2	22 23	3 2	24 2	25 26	27	28	29 30	0 31	33
Populus tremuloides	Trembling Aspen			х		х	(Х																	
Potentilla recta	Sulphur Cinquefoil	х																								
Potentilla simplex	Old-field Cinquefoil			х							х											Х		1		
Prunella vulgaris ssp. vulgaris	Self-heal																						х			
Prunus americana	American Plum														Х											
Prunus avium	Sweet Cherry			х																		х		1		
Prunus pensylvanica	Pin Cherry			х																						
Prunus serotina	Wild Black Cherry	х		х	х					х												х	х	х	Х	
Prunus virginiana	Choke Cherry	х	х	хх	x 2	x x	x x		х	х	х	x	х	х	Х			х				х		x	χ	х
Quercus alba	White Oak			х																		х		х	х	
Quercus bicolor	Swamp White Oak		х	х							Х			х								Х		х х	Х	
Quercus macrocarpa	Bur Oak	х	х	хх	х				х	х	х			х							х	х	х	хх	СХ	
Quercus palustris	Pin Oak	хх	х	хх	x	х	(х	х			х	х	Х	х	х	х	. >	х		х	х	х х	χ	
Quercus rubra	Northern Red Oak			хх	x	X	(х				х								Х		х	Х	
Ranunculus abortivus	Kidney-leaved Buttercup	(х							х				Х							х		1		
Ranunculus acris	Tall Buttercup										х													1		
Rhamnus alnifolia	Alderleaf Buckthorn															х										
Rhamnus cathartica	Common Buckthorn	х	х	x x	х	X		х	X	х	х х			х	Х	х	х	х	: >	x 2	х х	Х	х	Х	Х	
Ribes americanum	Wild Black Currant					x	(1		
Ribes cynosbati	Prickly Gooseberry			х			7)									х								
Ribes glandulosum	Skunk Currant	x		х							х			х	Х									x	χ	
Ribes hirtellum	Smooth Gooseberry		х	х																						
Ribes lacustre	Bristly Black Currant	x		х																						
Ribes triste	Swamp Red Currant				х																					
Rosa multiflora	Multiflora Rose										х										Х	Х		x	х	
Rosa palustris	Swamp Rose																					Х				
Rosa rubingosa var. rubingosa	Briar Rose			х														х					х			
Rubus allegheniensis	Alleghany Blackberry				х					х				х								Х	х	х	х	
Rubus hispidus	Bristly Dewberry			х																		Х				
Rubus idaeus ssp. strigosus	Wild Red Raspberry	x		х	х	Х	х		Х	х	х			х		х		х			Х	Х				Х
Rubus occidentalis	Black Raspberry	х																						х	х	
Rubus pubescens	Dewberry			хх																						
Rudbeckia hirta var. hirta	Black-eyed Susan					х	(
Salix alba	White Willow	х									х				Х											
Salix amygdaloides	Peach-leaved Willow																					Х				
Salix bebbiana	Bebb's Willow			х									Х	х								Х	Х			
Salix discolor	Pussy Willow												х													
Salix eriocephala	Heart-leaved Willow																			,	х					

Sphenopholis intermedia Slender Wedge Grass White Meadowsweet X X X X X X X X X X X X X X X X X X X	Scientific Name	Common Name	1 2	3	4 5	6	7 8	9	10 11	12	14	15	16	17	18	19	20	21	22 2	23 2	4 25	26	27	28	29	30	31	33
Seint Langer Salin alba K Salin customs	Salix interior	Sandbar Willow						П					х	х														
Sembleuse anoderinals	Salix nigra	Black Willow																					х					
Sembeuts in ign	Salix x fragilis	(Salix alba X Salix euxina)					х																					
Sectional condensis	Sambucus canadensis	Common Elderberry			х																							
Schoenoplectus tobernaemontani	Sambucus nigra	European Elder																					х					
Scheenoplectus tabemaemonitani Soft-stemmed Bulrush Dark-green Bulrush Dark-green Bulrush Scirpus Marcocapus Red-tunge Bulrush Refuse Bulrush	Sanguinaria canadensis	Bloodroot														Х												
Scirpus attrovivens	Schedonorus pratensis	Meadow Fescue										х									х							
Scirpus microcarpus	Schoenoplectus tabernaemontani	Soft-stemmed Bulrush															Х											
Scripspendulus	Scirpus atrovirens	Dark-green Bulrush													Х													
Secularia lateriflaro	Scirpus microcarpus	Red-tinge Bulrush									х																	
Securigera varia Common Crown-vetch Sisyrinchium montanum var. montanum Strict Blue-eyed-grass Mim suave Hemlock Water pasnip X X X Solidago altissima ssp. altissima Eastern Late Goldenrod X X X X Solidago altissima ssp. altissima Canada Goldenrod X X X X Solidago altissima ssp. altissima Canada Goldenrod X X X X X X X X X X X X X X X X X X X	Scirpus pendulus	Rufous Bulrush	х	Х	х	(
Signinchium montanium var. montanium Strict Blue-eyed-grass Sium sauve Hemlock Water-parsnip X X X X X X X X X X X X X X X X X X X	Scutellaria lateriflora	Mad Dog Skullcap			>																			х				
Sum suave	Securigera varia	Common Crown-vetch																			х							
Solanum dulcamara Climbing Nightshade X X X X Solidago altissima Sa Eastern Late Goldenrod X X X X Solidago canadensis var. canadensis Canada Goldenrod X X X X Solidago canadensis var. canadensis X X X X Solidago canadensis var. canadensis X X X X Solidago canadensis var. canadensis X X X X Solidago incea Early Goldenrod X X X X Solidago juncea Early Goldenrod X X X X X Solidago juncea Early Goldenrod X X X X X Solidago juncea Early Goldenrod X X X X X Solidago juncea Solid	Sisyrinchium montanum var. montanum	Strict Blue-eyed-grass											Х								х							
Solidago altissima ssp. altissima Eastern Late Goldenrod Canada Goldenrod Canada Goldenrod Solidago texicaulis Solidago flexicaulis Solidago flexicaulis Solidago flexicaulis Solidago flexicaulis Solidago flexicaulis Solidago procea Early Goldenrod Solidago nemoralis ssp. nemoralis Gray-stemmed Goldenrod Solidago rugosa var. rugosa Northern Rough-leaved Goldenrod X X X X X X X X X X X X X X X X X X X	Sium suave	Hemlock Water-parsnip		x	Х												х						х					
Solidago canadensis var. canadensis Canada Goldenrod Zigag Goldenrod Early Goldenrod Solidago juncea Solidago juncea Solidago nemoralis ssp. nemoralis Gray-stemmed Goldenrod X X X X X X X X X X X X X X X X X X X	Solanum dulcamara	Climbing Nightshade	х	x	х							х											х	х				
Solidago filexicaulis	Solidago altissima ssp. altissima	Eastern Late Goldenrod										х			Х						х		х					Х
Solidago juncea Early Goldenrod Gay-stemmed Goldenrod Northern Rough-leaved Goldenrod X X X X X X X X X X X X X X X X X X X	Solidago canadensis var. canadensis	Canada Goldenrod			,	(Х	х	Х									х				
Solidago nemoralis ssp. nemoralis Solidago rugosa var. rugosa Northern Rough-leaved Goldenrod X X X X X Sphenopholis intermedia Slender Wedge Grass Spiraea alba White Meadowsweet X X X X X Symphyotrichum ericoides var. ericoides White Heath Aster Symphyotrichum lauee var. laeve Smooth Aster Symphyotrichum laueeiflorum Starved Aster X X X X X X X X X X X X X X X X X X X	Solidago flexicaulis	Zigzag Goldenrod			x >		4			,																		
Solidago rugosa var. rugosa Northern Rough-leaved Goldenrod X X X X X Sphenopholis intermedia Slender Wedge Grass Spirace alba White Meadowsweet X X X X X Symphyotrichum ericoides var. ericoides White Heath Aster Symphyotrichum lavee var. laeve Symphyotrichum lavee var. laeve Symphyotrichum lateriflorum Starved Aster X X X X X X X X X X X X X X X X X X X	Solidago juncea	Early Goldenrod										х	Х								х							
Sphenopholis intermedia Slender Wedge Grass White Meadowsweet X X X X X Symphyotrichum ericoides var. ericoides White Heath Aster Symphyotrichum laeve var. laeve Smooth Aster Symphyotrichum lanceolatum ssp. lanceolatum Panicled Aster X X X X X X X X X X X X X X X X X X X	Solidago nemoralis ssp. nemoralis	Gray-stemmed Goldenrod					х						Х															
Spiraea alba White Meadowsweet X X X X X X X X X X X X X X X X X X X	Solidago rugosa var. rugosa	Northern Rough-leaved Goldenrod	х	X	х	2									Х				х			х	х			Х	х	
Symphyotrichum ericoides Var. ericoides Smooth Aster Symphyotrichum laeve var. laeve Smooth Aster Symphyotrichum lanceolatum ssp. lanceolatum Panicled Aster X X X X X X X X X X X X X X X X X X X	Sphenopholis intermedia	Slender Wedge Grass																					х					
Symphyotrichum laeve var. laeve Smooth Aster Symphyotrichum lanceolatum ssp. lanceolatum Panicled Aster x x x x x x x x x x x x x x x x x x x	Spiraea alba	White Meadowsweet		х	x >	x																	х	х				
Symphyotrichum lanceolatum ssp. lanceolatum Starved Aster Symphyotrichum lateriflorum Starved Aster New England Aster Symphyotrichum pilosum var. pilosum Old Field Aster Symphyotrichum urophyllum Arrow-leaved Aster Taraxacum officinale Common Dandelion Early Meadow-rue Thelypteris palustris Eastern Marsh Fern Tilia americana Panicled Aster X X X X X X X X X X X X X X X X X X X	Symphyotrichum ericoides var. ericoides	White Heath Aster					х				х		Х											х				
Symphyotrichum lateriflorum Starved Aster x	Symphyotrichum laeve var. laeve	Smooth Aster											Х															
Symphyotrichum novae-angliae New England Aster x	Symphyotrichum lanceolatum ssp. lanceolatum	Panicled Aster	x x	х	х	(х				х	х		х	Х		х		х			х	х	х		Х	х	Х
Symphyotrichum pilosum var. pilosum Symphyotrichum urophyllum Arrow-leaved Aster X X X X X X X X X X X X X X X X X X X	Symphyotrichum lateriflorum	Starved Aster	x x		>	(х	х		Х	х	Х
Symphyotrichum urophyllum Arrow-leaved Aster x	Symphyotrichum novae-angliae	New England Aster			>	(х				х	х	х		Х								х	х				
Taraxacum officinale Common Dandelion x	Symphyotrichum pilosum var. pilosum	Old Field Aster					х				х		х															
Thalictrum dioicum Early Meadow-rue X X Thelypteris palustris Eastern Marsh Fern X X Tilia americana American Basswood X X X	Symphyotrichum urophyllum	Arrow-leaved Aster			>	(
Thelypteris palustris Eastern Marsh Fern X Image: Control of the contr	Taraxacum officinale	Common Dandelion	х)	х	х	х	х	х		х		х	Х						х							
Tilia americana American Basswood x x x x x x	Thalictrum dioicum	Early Meadow-rue)	(х																		
	Thelypteris palustris	Eastern Marsh Fern			×	(
Toxicodendron radicans Climbing Poison Ivy x x x x x x x x x x x x x x x x x x x	Tilia americana	American Basswood			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					Х					х								Х			Х	Х	
	Toxicodendron radicans	Climbing Poison Ivy	хх		х	(хх		Х	Х		Х		Х	Х	Х	Х		х				Х	х		Х	Х	Х
Trifolium pratense Red Clover x x x x x x	Trifolium pratense	Red Clover						х				Х									х							
Trifolium repens White Clover x	Trifolium repens	White Clover																						х				

Scientific Name	Common Name	1 2	3	4 5	6	7 8	9	10	11	12	14 1	5 16	17	18	19	20	21 2	22 23	3 24	25	26	27	28	29 30	31	33
Trillium grandiflorum	White Trillium			х																						
Tussilago farfara	Colt's-foot					х							х													
Typha angustifolia	Narrow-leaved Cattail			х																						
Typha latifolia	Broad-leaved Cattail		х	х																х		Х				
Ulmus americana	American Elm	хх	х	х х	X Z	х	к х		х	х)	x x	Х	х	Х	х						Х	х	х	X	
Ulmus rubra	Slippery Elm										Х															
Urtica dioica ssp. dioica	European Stinging Nettle		х	х																						
Uvularia grandiflora	Large-flowered Bellwort			х																						
Vaccinium corymbosum	Highbush Blueberry			х																						
Verbena hastata	Blue Vervain	x												х								Х	х	х	x	
Verbena urticifolia	White Vervain	х																								
Veronica officinalis	Common Speedwell	х				>	κ															Х				
Viburnum acerifolium	Maple-leaf Viburnum																					Х				
Viburnum lentago	Nannyberry			х	х									х								Х				
Viburnum opulus ssp. trilobum	Highbush Cranberry										x >		х		х											
Viburnum recognitum	Smooth Arrowwood					>	(х		х												
Vicia cracca	Tufted Vetch		4			х	x x)	(х			Х			
Vinca minor	Periwinkle					>	()	(
Viola affinis	Le Conte's Violet													х												
Viola cucullata	Marsh Blue Violet		х	хх	M		7																			
Vitis riparia	Riverbank Grape			х		>	x x)	(Х	Х	Х							Х	х			
Arctium sp	Burdock Species																									х
Carya sp	Hickory Species)	(х	x	
Crataegus sp	Hawthorn Species		х	хх			х		х	х				Х				х			х		х			
Dryopteris sp	Wood Fern Species			х)	(Х				
Epilobium sp	Willow-herb Species			х)	(
Geum sp	Avens Species	x			х	>	ĸ			х)	(Х	Х			х				Х		Х	х	Х
Hieracium sp	Hawkweed Species											х														
Juncus sp	Rush Species			х)	(
Lemna sp	Duckweed Species			х																		Х				
Malus sp	Apple Species				x z	х)	(х												
Myosotis sp	Forget-me-not Species		х	х																						
Oenothera sp	Evening-primrose Species											х														
Polygonum sp	Smartweed Species	хх	х	х																						
Potamogeton sp	Pondweed Species			х																						
Potentilla sp	Cinquefoil Species				х																	Х				
Prenanthes sp	Rattlesnake-root Species			х																						
Rosa sp	Rose Species	х	х	х	x 2	хх	(х					х												

Scientific Name	Common Name	1	2 3	4	5	6 7	8	9	10	11	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	33
Salix sp	Willow Species		х	х			х	Х	Х									х	Х		Х	Х								
Scirpus sp	Bulrush Species																	Х												
Trifolium sp	Clover Species					х								х																
Viola sp	Violet Species												Х				Х								х					



Table 7: Ambystoma laterale (and unisexual polyploids) capture numbers by date and pond (see Appendix 2).

Pond	Number o	of Ambyston	na laterale c	aptured by s	urvey date	TOTAL
Pond	April 8	April 10	April 13	April 17	April 20	IOIAL
1	3	12	1	0	0	16
2	1	3	0	0	0	4
3	3	4	2	0	1	10
4	1	2	1	0	0	4
5	0	0	0	0	0	0
6	1	3	2	0	0	6
7	2	5	0	0	0	7
8	0	19	0	0	0	19
TOTAL	11	48	6	0	1	66



Table 8: Summary of anuran species found at each Nocturnal Amphibian Call Station.

Property Location	NACS Station	Spring Peeper Pseudacris crucifer	American Toad Anaxyrus americanus	Western Chorus Frog Pseudacris triseriata	Northern Leopard Frog Lithobates pipiens	Gray Treefrog Hyla versicolor	Wood Frog Lithobates sylvaticus
North Area (Oldfield	1	Present	Present	Present		Present	
Road)	2	Present	Present	Present		Present	
	13					Present	
East Area (Dorchester	3	Present		Present		Present	
Road)	4	Present				Present	
	5	Present		Present		Present	
Central Area (Near	6	Present	Present	Present	Present	Present	
Conrail Drain)	11	Present				Present	
Central Area (south of Conrail Drain)	12					Present	
South Area (north of	7	Present	Present	Present		Present	
Dorchester	8	Present	Present	Present		Present	
Road/Chippewa	9	Present		Present		Present	Present
Parkway)	10		Present	Present		Present	

Table 9: Breeding Bird Summary. Grey highlights indicate species that were observed, but not breeding on the property. Green highlights indicate species that are either provincially, regionally, or locally rare, and/or area sensitive.

		Conservation Status							
		National	Provin		Regional	Local			
Common Name	Scientific Name	COSEWIC Designation (2014)	OMNRF Designation (OMNRF 2015)	Srank (2013 Update)	BCR 13 Priority Sp. (Lower Great Lakes / St. Lawrence Plain) (OPIF 2008)	Niagara Region (Black & Roy 2010)	Covered by MBCA (1994)	Area Sensitivity (OMNR 2000)	Breeding Evidence (OBBA 2001)
Canada Goose	Branta canadensis			S5		very common	Υ		Х
Wood Duck	Aix sponsa			S5		uncommon	Υ		Possible
Mallard	Anas platyrhynchos			S5		common	Υ		Possible
Wild Turkey	Meleagris gallopavo			S5		uncommon	N		Possible
Double-crested Cormorant	Phalacrocorax auritus	NAR	NAR	S5		very common	N		Х
Great Blue Heron	Ardea herodias			S4		uncommon	Υ		X
Great Egret	Ardea alba			S2		rare	Υ		X
Black-crowned Night-Heron	Nycticorax			S3		uncommon	Υ		X
Sharp-shinned Hawk	Accipiter striatus	NAR	NAR	S5		uncommon	N	AS	Possible
Killdeer	Charadrius vociferus			S5		common	Υ		Probable
Spotted Sandpiper	Actitis macularius			S5		common	Υ		Possible
Common Tern	Sterna hirundo	NAR	NAR	S4		uncommon	Υ		X
Rock Pigeon	Patagioena livia			SNA		very common	N		Possible
Mourning Dove	Zenaida macroura			S5		very common	Υ		Possible
Cuckoo species	Coccyzus sp.			S4-S5		uncommon	Υ		Possible
Great Horned Owl	Bubo virginianus			S4		uncommon	N		Possible
Chimney Swift	Chaetura pelagica	THR	THR	S4	PLS	uncommon	Υ		Х
Red-bellied Woodpecker	Melanerpes carolinus			S4		uncommon	Υ		Probable
Downy Woodpecker	Picoides pubescens			S5		common	Υ		Probable
Hairy Woodpecker	Picoides villosus			S5		uncommon	Υ	AS	Possible
Northern Flicker	Colaptes auratus			S4	PLS	common	Υ		Probable
Eastern Wood-Pewee	Contopus virens	SC	SC	S4	PLS	common	Υ		Probable
Acadian Flycatcher	Empidonax virescens	END	END	S2S3	PLS	extremely rare	Υ	AS	Possible
Willow Flycatcher	Empidonax traillii			S5	PLS	uncommon	Υ		Probable

		Conservation Status							
		National	Provin		Regional	Local			
Common Name	Scientific Name	COSEWIC Designation (2014)	OMNRF Designation (OMNRF 2015)	Srank (2013 Update)	BCR 13 Priority Sp. (Lower Great Lakes / St. Lawrence Plain) (OPIF 2008)	Niagara Region (Black & Roy 2010)	Covered by MBCA (1994)	Area Sensitivity (OMNR 2000)	Breeding Evidence (OBBA 2001)
Eastern Phoebe	Sayornis phoebe			S5		common	Υ		Possible
Great Crested Flycatcher	Myiarchus crinitus			S4		common	Υ		Probable
Yellow-throated Vireo	Vireo flavifrons			S4		rare and local	Υ	AS	Probable
Warbling Vireo	Vireo gilvus			S5		common	Υ		Probable
Red-eyed Vireo	Vireo olivaceus			S5		common	Υ		Probable
Blue Jay	Cyanocitta cristata			S5		very common	N		Probable
American Crow	Corvus brachyrhynchos			S5		common	N		Probable
Purple Martin	Progne subis			S4		very common	Υ		Х
Tree Swallow	Tachycineta bicolor			S4		very common	Υ		Probable
Northern Rough-winged Swallow	Stelgidopteryx serripennis			S4		uncommon	Υ		Х
Barn Swallow	Hirundo rustica	THR	THR	S4		very common	Υ		Possible
Black-capped Chickadee	Poecile atricapillus			S5		common	Υ		Probable
Tufted Titmouse	Baeolophus bicolor			S4		rare	Υ	AS	Probable
White-breasted Nuthatch	Sitta carolinensis			S5		uncommon	Υ	AS	Probable
House Wren	Troglodytes aedon			S5		common	Υ		Probable
Wood Thrush	Hylocichla mustelina	THR	SC	S4	PLS	uncommon	Υ		Probable
American Robin	Turdus migratorius			S5		very common	Υ		Probable
Gray Catbird	Dumetella carolinensis			S4		common	Υ		Probable
Brown Thrasher	Toxostoma rufum			S4	PLS	uncommon	Υ		Possible
European Starling	Sturnus vulgaris			SNA		very common	N		Probable
Cedar Waxwing	Bombycilla cedrorum			S5		common	Υ		Probable
Blue-winged Warbler	Vermivora cyanoptera			S4	PLS	uncommon	Υ		Probable
Common Yellowthroat	Geothlypis trichas			S5		common	Υ		Probable
Yellow Warbler	Setophaga petechia			S5		common	Υ		Probable
Blackpoll Warbler	Setophaga striata			S4		spring/fall transient	Υ		Migrant

			Conse	ervation	Status				
		National	Provinc	cial	Regional	Local			
Common Name	Scientific Name	COSEWIC Designation (2014)	OMNRF Designation (OMNRF 2015)	Srank (2013 Update)	BCR 13 Priority Sp. (Lower Great Lakes / St. Lawrence Plain) (OPIF 2008)	Niagara Region (Black & Roy 2010)	Covered by MBCA (1994)	Area Sensitivity (OMNR 2000)	Breeding Evidence (OBBA 2001)
Wilson's Warbler	Cardellina pusilla			S4		spring/fall transient	Υ		Migrant
Eastern Towhee	Pipilo erythrophthalmus			S4	PLS	uncommon	Υ		Probable
Chipping Sparrow	Spizella passerina			S5		common	Υ		Probable
Field Sparrow	Spizella pusilla			S4	PLS	uncommon	Υ		Probable
Savannah Sparrow	Passerculus sandwichensis			S4	PLS	very common	Υ	AS	Possible
Song Sparrow	Melospiza melodia			S5		very common	Y		Probable
Swamp Sparrow	Melospiza georgiana			S5		uncommon	Y		Probable
Scarlet Tanager	Piranga olivacea			S4		uncommon	Υ	AS	Probable
Northern Cardinal	Cardinalis			S5		common	Υ		Probable
Rose-breasted Grosbeak	Pheucticus Iudovicianus			S4	PLS	common	Y		Probable
Indigo Bunting	Passerina cyanea			S4		common	Υ		Probable
Red-winged Blackbird	Agelaius phoeniceus			S4		very common	N		Probable
Common Grackle	Quiscalus quiscula			S5		very common	N		Probable
Brown-headed Cowbird	Molothrus ater			S4		very common	N		Probable
Orchard Oriole	Icterus spurius			S4		uncommon to rare	Y		Possible
Baltimore Oriole	Icterus galbula			S4	PLS	common	Υ		Probable
American Goldfinch	Spinus tristis			S5		common	Υ		Probable
House Sparrow	Passer domesticus			SNA		very common	N		Probable

LEGEND:

COSEWIC: END - Endangered; THR - Threatened; SC - Special Concern; NAR - assessed and deemed to be not at risk; --- = not assessed as population secure

OMNRF: END - Endangered; THR - Threatened; SC - Special Concern; NAR - assessed and deemed to be not at risk; --- = not assessed as population secure Provincial Sranks: S2/S3 - vulnerable; S4 - apparently secure; S5 - secure; SNA - non-native exotic

OPIF: PLS - Priority Landbird Species

Area Sensitivity: AS = Area Sensitive species

OBBA: X - species observed flying over site only and not considered as potential breeder; M - migrant only

Table 10: Fish species captured during 2015 site investigation

	\	Waterc	ourse 1		Watercourse 2		Waterco (Con Dra	Pond	
Date	June 11	Oct. 6	June 11	June 11	June 11	Oct. 6	June 11	June 11	June 11
Station	1-1	1-1	1-2	1-3	2-1	2-1	3-1	3-2	P1
Electroseconds	241 s	na	196 s	115 s	703 s	1057 s	811 s	109 s	141 s
Stream length sampled	22 m	22 m	25 m	36 m	155 m	168 m	105 m	12 m	na
Species									
White Sucker Catostomus commersonii	1j	20yoy	0	0	0	18yoy	0	0	0
Largemouth Bass Micropterus salmoides	0		0	0	0	7 <u>j</u>	0	0	0
Central Mudminnow Umbra limi	2a	10a	0	0	0	1a	0	0	0
Yellow Perch Perca flavescens	1j		0	0	0	0	0	0	0
Brook Stickleback Culaea inconstans	0		0	0	0	0	5	0	0
Brown Bullhead Ameiurus nebulosus	3j		0	0	0	1j	0	0	0
Bluntnose Minnow Pimephales notatus	1a		0	0	0	1a	0	0	0
Emerald Shiner Notropis atherinoides	0		0	4	0	0	0	0	0
Golden Shiner Notemigonus crysoleucas	0		0	0	0	2a	0	0	0

Notes: j=juvenile; a=adult; yoy=young of the year



Table 11: Preliminary Environmental Management Strategy Recommendations

Natural Heritage Element and Preliminary Policy Trigger(s)	Mitigation Hierarchy Recommendations	Preliminary Environmental Management Strategy Considerations
Slough Forest/Vernal Pool Complex Floodplain Wetlands along east creek	Avoid: Required for residential and commercial development; preferable option for servicing and transportation. Minimize: Where servicing and transportation impacts are unavoidable, steps should be taken to minimize the spatial extent and duration of impact.	PSW features have been identified and tentatively confirmed by the MNRF. There may be some room for small adjustments to the tentative boundary; where this is required, adjustments should be as minimal as possible. Buffers to the PSW boundary will range between 10 and 30 meters, and/or that required to ensure vernal pools and their function are not impacted by adjacent development; adjacent lands uses will also be considered during the prescription of buffer dimensions.
Policy Trigger: PPS: Provincially Significant Wetland)	Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable, steps should be taken to mitigation/rehabilitate impacted features.	Enhancement areas within PSW boundaries where features and/or functions have been disturbed in the past (e.g. recreate vernal pools where topography has been altered, clear/control patches of invasive species, identify areas of potential forest decline and establish an understory of native tree species, etc.)
Municipal: EPA Associated polygons: 3, 4, 5, 20, 21, 23, 24, 27, 31, 32	Compensate: Not typically an option for PSW features, but compensation for residual impacts resulting from servicing and transportation should be considered.	Establish linkages (both ecological and anthropogenic) among the PSW units to ensure core features are connected and permeable for small and medium sized wildlife.
Watercourses and Fish Habitat	Avoid: Impacts from development should be avoided where possible.	Watercourses 1 and 2 are largely within the PSW boundaries on the property and will therefore be maintained.
Policy Trigger: Fisheries Act: Fish habitat	Minimize: Where servicing and transportation impacts are unavoidable, steps should be taken to minimize the spatial extent and duration of impact.	Where watercourse crossings are necessary, the location(s) that minimize potential impacts should be assessed based on existing habitat condition, associated floodplain, and associated vegetation communities in the adjacent valley land. Where impacts are unavoidable, mitigation and/or compensation strategies will be developed in consultation with the NPCA, and submitted to the Department of Fisheries and Oceans for permitting if fish or fish habitat are impacted.

PPS: Fish habitat, watercourse, valley land Conservation Authorities Act General Regulation Associated Features: WC1, WC2	Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable, steps should be taken to mitigation/rehabilitate impacted features. Compensate: Where servicing and transportation impacts are unavoidable, steps should be taken to compensate for impacted habitat.	
Species at Risk/Species at Risk Habitat (Endangered and Threatened Species) Policy Trigger: PPS (Endangered Species Act)	Avoid: Impacts resulting from residential and commercial development should be avoided; preferable option for servicing and transportation. Minimize: Where impacts from development are unavoidable, the spatial extent and duration of impact should be minimized, particularly where it relates to occupied or potential habitat. Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable,	Provincially Endangered or Threatened Species at Risk detected during the 2015 surveys include: Barn Swallow Chimney Swift Acadian Flycatcher Nesting habitat for Barn Swallow and Chimney Swift were not documented on the site. If nesting habitat for these species is found and will be impacted, a permit will be required. The occurrence of Acadian Flycatcher included an individual that was documented in one of the isolated Willow Deciduous Swamp features (polygon 20); the individual was not documented on subsequent site wirits (either during follow up broading bird
Municipal (Environmental Conservation Area)	steps should be taken to mitigation/rehabilitate impacted features. Compensate: Not typically an option for species at risk habitat, but compensation for residual impacts resulting from servicing and transportation should be considered.	not documented on subsequent site visits (either during follow-up breeding bird surveys or ELC characterization) and therefore the feature was note considered breeding habitat, and a management plan is not required for this species. Other species that have not been detected, but have a high potential to be present include: • White Wood Aster • Round-leaved Greenbrier

		If these species are documented on the subject property, the location will be georeferenced and a contingency plan will be developed in collaboration with the MNRF and NPCA. ESA permits will be required if there is potential impact to the species and/or its habitat.
Old growth/Mature Forest	Avoid: Where possible impacts from development should be avoided. Minimize: Where impacts are unavoidable,	The bulk of old growth/mature forest will be protected within the PSW. Where other old-growth areas are present on the site they should be protected; this could include individual tree protection.
Policy Trigger: PPS (Significant Wildlife Habitat) Municipal	the spatial extent and duration of impact should be minimized. Mitigate/Rehabilitate: Where impacts are	Where development blocks are proposed on and/or adjacent to old-growth trees outside of the PSW, setbacks should be large enough to ensure the trees roots are not impacted.
(Environmental Conservation Area)	unavoidable, best management practices will be required to ensure the spatial extent of impact is contained, and efforts	Buffers to old growth/mature forest areas will ensure appropriate spatial separate is provided to reduce impacts to trees.
Affected polygons: 5, 27, 32 and potentially localized areas within 6,12, 13, 29, and 30	to restore to pre-disturbance condition are planned. Compensate: Not feasible for old growth/mature forests.	Compensation for old-growth forest is not feasible.
Shrub/Early Successional Bird Habitat Policy Trigger:	Avoid: Where possible, impacts should be avoided. Minimize: Where impacts are unavoidable, the spatial extent and duration of impact	Shrub/Early successional bird habitat is present in areas that will be proposed for development. Therefore, the features and characteristics of this habitat type will be a priority for creation within PSW buffers, parkland blocks, and/or restoration planting along the Con-rail Drain. Specific aspects of the plan will be developed with NPCA later in the Secondary Plan process.
PPS (Significant Wildlife Habitat)	should be minimized. Mitigate/Rehabilitate: Where impacts are	in the secondary han process.
Municipal (Environmental Conservation Area)	unavoidable, the best management practices should be undertaken to ensure the spatial extent of impact is contained,	

Affected polygons: 9, 11, 16, 28	and efforts to restore to pre-disturbance conditions are planned. Compensate: High potential for on-site restoration and incorporating into design of parks, greenspace, and other open space blocks.	
Bat Maternity	Avoid: Impacts will likely need to be	Surveys for Bat Maternity Roost habitat will be undertaken during early November 2015.
Roost Habitat	avoided where bat maternity roosts are	Updates will be provided as an addendum to the preliminary characterization report.
	document, particularly if the roosts are	Individual trees that meet the criteria for bat maternity roosts will be identified and
Policy Trigger:	used by Bat SAR.	georeferenced.
PPS (Significant	Minimize Inches to bet meetowe it and other	
Wildlife Habitat)	Minimize: Impacts to bat maternity roost trees will be considered on a cases by case	
Municipal	basis.	
(Environmental	50313.	
Conservation	Mitigate/Rehabilitate: Where indirect	
Area)	impacts are likely, disturbances can be	
	minimized through individual tree	
Affected	setbacks.	
polygons: 5, 27,		
32 and	Compensate: Compensation for loss of bat	
potentially	maternity roost trees is not feasible, other	
localized areas within 6,12, 13,	options that result in the creation of bat roost habitat can be explored.	
29, and 30	Toost Habitat carr be explored.	
Mast Tree	Avoid: Concentration areas of mast trees	Surveys for Mast Tree habitat will be undertaken during early November 2015. Updates
Habitat	(e.g. Oaks and Hickories) should be	will be provided as an addendum to the preliminary characterization report. Areas with
	protected.	larger diameter trees will be identified
Policy Trigger:		
PPS (Significant	Minimize: Where impacts are unavoidable,	
Wildlife Habitat)	the extent of tree removal should be	
	minimized.	
Municipal		
(Environmental	Mitigate/Rehabilitate: Where indirect	
	impacts are likely, disturbances can be	

Conservation Area) Affected polygons: 5, 27, 32 and potentially localized areas within 6,12, 13, 29, and 30	minimized through appropriate setbacks to protect individual trees and their root systems. Compensate: Where mast trees are removed, an appropriate compensation plan should be developed based on the size/age of each tree.	
Amphibian Breeding Habitat (Woodland type) Policy Trigger: PPS (Significant Wildlife Habitat) Municipal (Environmental Conservation Area) Affected polygons: 3, 4, 5, 20, 21, 23, 24, 27, and 32; potential for some areas within polygons 11 and 12	Avoid: Impacts to amphibian breeding habitat are to be avoided within the PSW, and should be avoided where possible outside of the PSW. Minimize: Where unavoidable, the spatial extent and duration of impacts to amphibian breeding habitat should be minimized. Mitigate/Rehabilitate: Where impacts are unavoidable, best management practices should be undertaken to ensure the spatial extent of impact is contained, and efforts to restore to pre-disturbance conditions are planned. Compensate: Opportunities for vernal pool creation/enhancement can be explored, both as a method to address potential loss of ponds outside the PSW, and to enhance ponds within the PSW.	The majority of amphibian woodland breeding habitat will be protected in the PSW. Other small vernal ponds exist across the property outside of the PSW boundary. These areas have been documented as part of the characterization, and where impacts are unavoidable, opportunities for enhancement of existing habitat will be explored; as well, opportunities for habitat recreation on-site will be explored in collaboration with the NPCA.
Habitat for Provincially Rare Species	Avoid: Impacts to Schreber's Aster are to be avoided within the PSW, and should be	Currently, Schreber's Aster has only been documented in PSW areas and therefore will be protected. If it is found in other locations, the area will be georeferenced. Where the

and/or Species	avoided where possible outside of the	species occurs outside of protected areas, a salvage and relocation plan will be
of Special	PSW.	developed in collaboration with the NPCA.
Concern		
(Schreber's	Minimize: Where unavoidable, the spatial	
Aster)	extent and duration of impacts the species	
,	habitat should be minimized.	
Policy Trigger:		
PPS (Significant	Mitigate/Rehabilitate: Where impacts are	
Wildlife Habitat)	unavoidable, best management practices	
,	should be undertaken to ensure the	
Municipal	spatial extent of impact is contained, and	
(Environmental	efforts to restore to pre-disturbance	
Conservation	conditions are planned. Additionally,	
Area)	plants should be salvage and relocated to	
	suitable habitat.	
Affected		
polygons: 27	Compensate: Where required, salvaged	
1 /3	plants can be used for restoration and	
	enhancement of degraded areas within	
	the PSW, or within restoration areas	
	identified elsewhere on site.	
Habitat for	Avoid: Impacts to Honey-locust are to be	Currently, Honey-locust has only been documented in PSW areas and therefore will be
Provincially	avoided within the PSW, and should be	protected. If it is found in other locations, the area will be georeferenced. Where the
Rare Species	avoided where possible outside of the	species occurs outside of protected areas, a tree preservation study will be completed to
and/or Species	PSW.	determine the feasibility of avoiding impacts. Where impacts are unavoidable, a
of Special		compensation plan will be developed in collaboration with the NPCA.
Concern	Minimize: Where unavoidable, the spatial	
(Honey-locust)	extent and duration of impacts the species	
•	habitat should be minimized.	
Policy Trigger:		
PPS (Significant	Mitigate/Rehabilitate: Where impacts are	
Wildlife Habitat)	unavoidable, best management practices	
	should be undertaken to ensure the	
Municipal	spatial extent of impact is contained, and	
(Environmental	efforts to restore to pre-disturbance	
•	conditions are planned. Additionally,	

Conservation Area)	plants should be salvage and relocated to suitable habitat.	
Affected polygons: 31	Compensate: Where required, salvaged plants can be used for restoration and enhancement of degraded areas within the PSW, or within restoration areas identified elsewhere on site.	
Habitat for	Avoid: Impacts to Eastern Wood-Pewee	Large areas of Eastern Wood-Pewee habitat will be protected within the PSW areas.
Provincially	breeding habitat within the PSW are to be	Other woodland areas that support this species could also be protected and/or
Rare Species	avoided, and should be avoided where	prioritized for compensation/enhancement. Additionally, as this species will use smaller
and/or Species	possible outside of the PSW.	woodland elements, the feasibility of retaining groups of trees as woodland elements
of Special		will be explored during the Secondary Plan process.
Concern	Minimize: Where impacts to Eastern	
(Eastern Wood	Wood-Pewee habitat are unavoidable, the	
Pewee)	spatial extent and duration of impact should be minimized.	
Policy Trigger: PPS (Significant Wildlife Habitat)	Mitigate/Rehabilitate: Where impacts are unavoidable, best management practices should be undertaken to ensure the	
Municipal	spatial extent of impact is contained, and	
(Environmental	efforts to restore forest understory areas	
Conservation	to pre-disturbance conditions are planned.	
Area)		
	Compensate: Compensation for Eastern	
Affected	Wood-Pewee habitat is not feasible in the	
polygons: 5, 6,	short-term.	
18, 19, 27	A LIL LANGETH III	CM LTL LL Lis a William and Lister of DCM CM
Habitat for	Avoid: Impacts to Wood Thrush breeding	Large areas of Wood Thrush habitat will be protected within the PSW areas. Other
Provincially	habitat within the PSW are to be avoided, and should be avoided where possible	woodland areas that support this species may also be protected and/or prioritized for compensation/enhancement.
Rare Species	outside of the PSW.	compensation/enhancement.
and/or Species	outside of the Law.	This species is unlikely to use small woodland patches, and/or wooded areas in proximity
of Special Concern	Minimize: Where impacts to Eastern	to developed land, therefore larger buffers around high quality habitat areas may be
(Wood Thrush)	Wood-Pewee habitat are unavoidable, the	required for PSW and other areas that are retained.

Policy Trigger: PPS (Significant	spatial extent and duration of impact should be minimized.	
Wildlife Habitat)	Mitigate/Rehabilitate: Where impacts are unavoidable, best management practices	
Municipal	should be undertaken to ensure the	
(Environmental	spatial extent of impact is contained, and	
Conservation	efforts to restore forest understory areas	
Area)	to pre-disturbance conditions are planned.	
Affected	Compensate: Compensation for Wood	
polygons: 1, 4,	Thrush habitat is not feasible in the short-	
5, 6, 11, 12, 13,	term.	
19, 24, 27		
Habitat for	Avoid: Impacts to Snapping Turtle	Snapping Turtle habitat may be present in larger ponds on the property. One sighting
Provincially	breeding habitat within the PSW are to be	(assumed to be a Snapping Turtle) was observed in polygon 24 located near the Welland
Rare Species	avoided, and should be avoided where	River. This feature is part of the PSW, and therefore will be retained. Additional
and/or Species	possible outside of the PSW.	consideration should be given to ensuring linkage to the Welland River, and to other
of Special		ponds across the property.
Concern	Minimize: Where impacts to Snapping	
(Snapping	Turtle breeding habitat are unavoidable,	
Turtle)	the spatial extent and duration of impact should be minimized.	
Policy Trigger:		
PPS (Significant	Mitigate/Rehabilitate: Where impacts are	
Wildlife Habitat)	unavoidable, best management practices	
	should be undertaken to ensure the	
Municipal	spatial extent of impact is contained, and	
(Environmental	efforts to restore pre-disturbance	
Conservation	conditions are planned. Additionally,	
Area)	linkage among wetland feature and the Welland Canal should be maintained	
Affected	and/or enhanced.	
polygons:		
24 (potential)	Compensate: Where impacts are	
	unavoidable and cannot be mitigated,	

	compensation for impacted Snapping Turtle habitat will be considered and opportunities identified.	
Reptile Hibernacula	Avoid: The location of reptile hibernacula should be avoided if documented.	Reptile hibernacula were not observed during site visits, in part because they are very difficult to detect. If hibernacula are identified during subsequent site visits, the location will be documented and a contingency plan will be developed in collaboration with the
Policy Trigger: PPS (Significant Wildlife Habitat) Municipal (Environmental	Minimize: Given that reptile hibernacula are very difficult to detect, a contingency plan will be developed to minimize impacts to reptile hibernacula should they be found.	NPCA.
Conservation Area)	Mitigate/Rehabilitate: Where indirect impacts to reptile hibernacula are unavoidable, best management practices	
Affected polygons: Potentially All	should be undertaken to ensure the spatial extent of impact is contained, and efforts to restore pre-disturbance conditions are planned. As noted above, a contingency plan will be prepared in the event that reptile hibernacula is encountered. This will include spatial setbacks, and linkage to protected natural areas. Compensate: Where impacts are unavoidable, reptile hibernacula can be recreated on-site.	
Deer Winter Congregation Areas	Avoid: Impacts to deer wintering habitat should be avoided within the PSW, and other woodland areas where possible.	Deer winter congregation habitat will be largely protected within the PSW areas. Protection of these areas, associated buffers, and linkage protection/creation will ensure that core areas of this habitat are protected and connectivity is maintained.
Policy Trigger: PPS (Significant Wildlife Habitat)	Minimize: Where impacts are unavoidable, the extent of impacted forest should be minimized, and avoid core areas within the identified habitat.	

Municipal (Environmental Conservation Area) Affected polygons:	Mitigate/Rehabilitate: Where impacts are unavoidable, linkage among core areas of deer wintering habitat should be established. Compensate: On-site compensation for	
TBD	deer wintering habitat is not feasible.	
Rare	Avoid: Impacts to rare vegetation	Rare vegetation types include:
Vegetation	community types should be avoided.	Pin Oak Mineral Deciduous Swamp Type (SWD1-3): S2S3
Communities		Buttonbush Mineral Thicket Swamp Type (SWT2-4): S3
	Minimize: Where impacts cannot be	Gray Dogwood Mineral Thicket Swamp Type (SWT2-9): S3S4
Policy Trigger:	avoided, the extent and duration of	
PPS (Significant	disturbance should be minimized.	The Pin Oak Mineral Deciduous Swamp Type is primarily associated with the PSW and
Wildlife Habitat)	MCC - 1 - /D - L - L-	will therefore be protected. There are other polygons outside of the PSW boundary that
NA	Mitigate/Rehabilitate: Where impacts are unavoidable, best management practices	have elements of this vegetation type (e.g. polygon 12). Where this feature type will be impacted, a salvaging and relocation plan should be developed for provincially or
Municipal (Environmental	adjacent to rare vegetation community	regionally rare plant species associated with the feature. Relocation should target areas
Conservation	types should be undertaken. Additionally,	that will be protected, either within the PSW as enhancement and/or in other areas that
Area)	if these areas have a high likelihood of	are targeted for on-site compensation/restoration.
711'CU)	being impacted, ensure representative	
Affected	species are salvaged and use for	The Buttonbush Mineral Thicket Swamp communities are associated with the PSW and
polygons: 3, 4,	restoration and enhancement elsewhere.	will be therefore be protected. If other features are found during additional field
5, 6, 27, 32		investigations (e.g. within polygon 12), they will be identified. As above, where this
	Compensate: Where impacts are	feature type is impacted, a salvaging and relocation plan will be prepared for any
	unavoidable, some on-site compensation	provincially or regionally rare plant species and wildlife that are present.
	work may be feasible for rare vegetation	
	communities. As above, a salvaging	The Gray Dogwood Mineral Thicket Swamp communities are associated with non-PSW
	strategy should be developed for such cases.	wetlands areas (example as inclusions in polygon 6). Where this type of habitat is impacted, the extent of loss can be documented; the extent of loss will be incorporated
	cases.	into the buffer planting plans and on-site enhancement/compensation plans, with
		attempts to balance impacts.
		Direction for the salvaging and relocation plan will be developed in collaboration with the NPCA.

Other	Avoid: Where feasible, non-PSW wetland	Areas of Green Ash, Willow, and Oak swamp exist outside of the PSW boundary. These
Wetlands (e.g.	features should be considered for	areas are regulated by the Region of Niagara and the NPCA, therefore will require
Green Ash	protection.	negotiations regarding removal. To address potential impacts associated with removal
Swamp, Willow	protection.	of these features, opportunities should be explored to enhance the PSW areas, identify
Swamp, Oak	Minimize: Where unavoidable, the spatial	potential on-site compensation areas, and identify linkage corridors among features that
Swamp)	extent of impact to non-PSW wetlands should be minimized.	are retained. On-going collaboration with the NPCA will be required to identify how these features will be managed as part of the Secondary Plan.
Policy Trigger: Municipal (Environmental Conservation Area) Affected polygons: 2, 6, 8, 10, 12, 17, 18, 26, and 29)	Mitigate/Rehabilitate: Where non-PSW areas are protected, appropriate buffers should be implemented to ensure protection of their features and functions. Additionally, where retained, some enhancement/rehabilitation may be required. Compensate: Where impacts result in loss of these features, the potential for compensation through enhancement of on-site PSW features and recreation of	
D	similar habitats should be considered.	Annual of the side of the annual and and the side of the DCW have done
Deciduous	Avoid: The highest quality deciduous forest and woodland areas should be	Areas of deciduous woodland and cultural woodland exist outside of the PSW boundary.
Forest and	protected.	These areas are regulated by the Region of Niagara and the NPCA, therefore will require negotiations regarding removal. To address potential impacts associated with removal
Woodlands outside of PSW	protected.	of these features, opportunities should be explored to enhance the PSW areas, identify
boundaries	Minimize: Where impacts are unavoidable,	potential on-site compensation areas, and identify linkage corridors among features that
Doundanes	steps should be taken to minimize the	are retained. On-going collaboration with the NPCA will be required to identify how
Municipal	spatial extent and duration of impact of	these features will be managed as part of the Secondary Plan.
(Environmental	these features.	
Conservation		
Area)	Mitigate/Rehabilitate: Where forested and	
-,	woodland areas are protected,	
Affected	appropriate buffers should be	
polygons:	implemented to ensure protection of their	
14, 19,	features and functions. Additionally,	
	where retained, some	

	enhancement/rehabilitation may be required. Compensate: Where impacts result in loss of these features, the potential for compensation through enhancement of on-site PSW features and restoration of similar habitats should be considered.				
Regionally Rare Plants.	Avoid: Where regionally rare plant species are present in the PSW, impacts will be avoided. Minimize: Where regionally rare species	subject property. Where s	lowing table identifies regionally rare plant species that were documented on the property. Where species are found in features outside of the PSW areas, and/or eatures that end up being protected, recommendations for salvaging and ion can be developed.		
	are present outside of the PSW, impacts to these species should be minimized through maintaining habitat around	Common Name	Scientific Name	Within PSW	Outside PSW
	locations where these species are	Pin Cherry	Prunus pensylvanica	Х	
	abundant. Mitigate/Rehabilitate: Where impacts are unavoidable, regionally rare species should be salvaged and replanted in appropriate habitat that will be protected on-site. In this regard, attention should be given to regionally rare species that occur outside of the PSW.	Limestone Bittercress	Cardamine douglassii	х	
		Leathery Knotweed	Polygonum achoreum	х	
		Asa Gray Sedge	Carex grayi	Х	
		Pale Sedge	Carex pallescens	х	
		Schreber's Aster	Eurybia schreberi	х	
		Blunt-leaved Bedstraw	Galium obtusum	х	
		Mountain Holly	llex mucronata	х	
	Compensate: Where impacts are unavoidable, and plant relocation is required, enhancement and habitat restoration maybe necessary to create the appropriate habitat conditions for the respective regionally rare plants.	Honey-locust	Gleditsia triacanthos	Х	
		Smooth Gooseberry	Ribes hirtellum	х	
		Drooping Woodreed	Cinna latifolia	Х	х
		Necklace Sedge	Carex projecta	х	Х
		Swamp Red Currant	Ribes triste		Х
		Carolina Spring Beauty	Claytonia caroliniana		Х
			-		

Eleocharis palustris

Х

Creeping Spike-rush

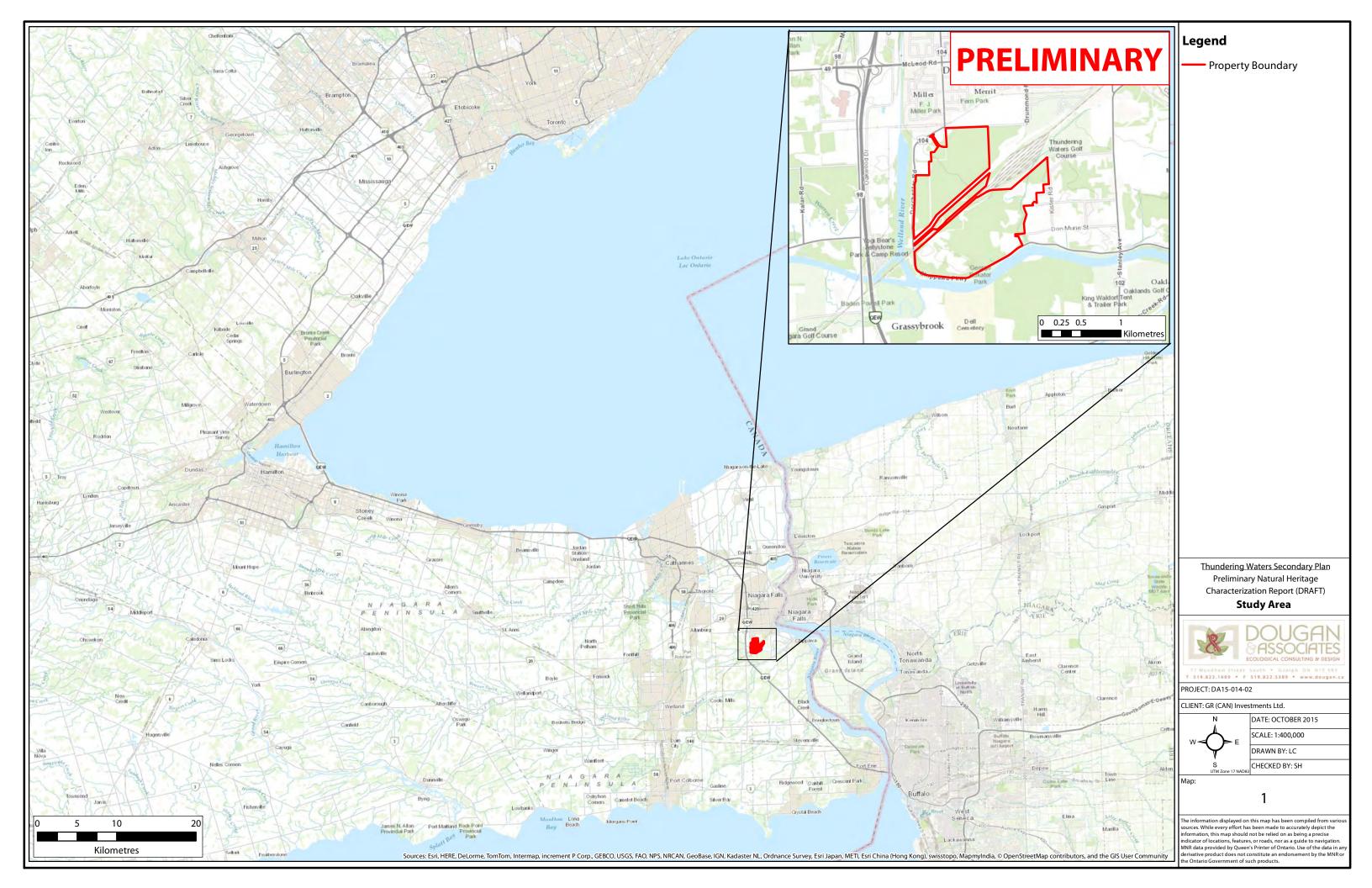
		Red-tinge Bulrush	Scirpus microcarpus	Х
		Finely-nerved Sedge	Carex leptonervia	х
		Yellow Sedge	Carex flava	х
		Canada Pussytoes	Antennaria howellii ssp. canadensis	х
		Elk Sedge	Carex garberi	Х
		Drooping Sedge	Carex prasina	Х
		Le Conte's Violet	Viola affinis	Х
		American Plum	Prunus americana	Х
		Alderleaf Buckthorn	Rhamnus alnifolia	х
		Woolly Sedge	Carex pellita	Х
Regionally Rare Wildlife Species	Avoid: Where regionally rare wildlife species are present in the PSW, impacts will be avoided. Minimize: Where regionally rare species are present outside of the PSW, impacts to these species should be minimized through maintaining habitat around locations where these species are abundant. Mitigate/Rehabilitate: Appropriate buffers adjacent to protected areas where these species have been documented will help to reduce impacts. Where impacts are unavoidable, the spatial extent of impacts should be restored as soon as possible for temporary disturbances. Compensate: Compensation for Regionally Rare wildlife species habitat that were documented on site is not feasible.	Regionally rare bird species observed on the property included Acadian Flycatcher (Polygon 20), Yellow-throated Vireo (Polygon 11, 14, 15, 27), and Tufted Titmouse (Poly 5, 6, 11, 12, 27). Although Acadian Flycatcher was observed on the property, only an individual on one occasion was observed (Polygon 20). This suggests the species was not breeding on the property and management of this species and habitat is not required. Habitat for Yellow-throated Vireo and Tufted Titmouse will be protected within the PSW areas. Buffers to the PSW and other retained features may also provide appropriate habitat for these species. Some areas that provide habitat outside of the PSW areas may also be retained if features are determined to be old growth and/or have bat maternity roosts.		



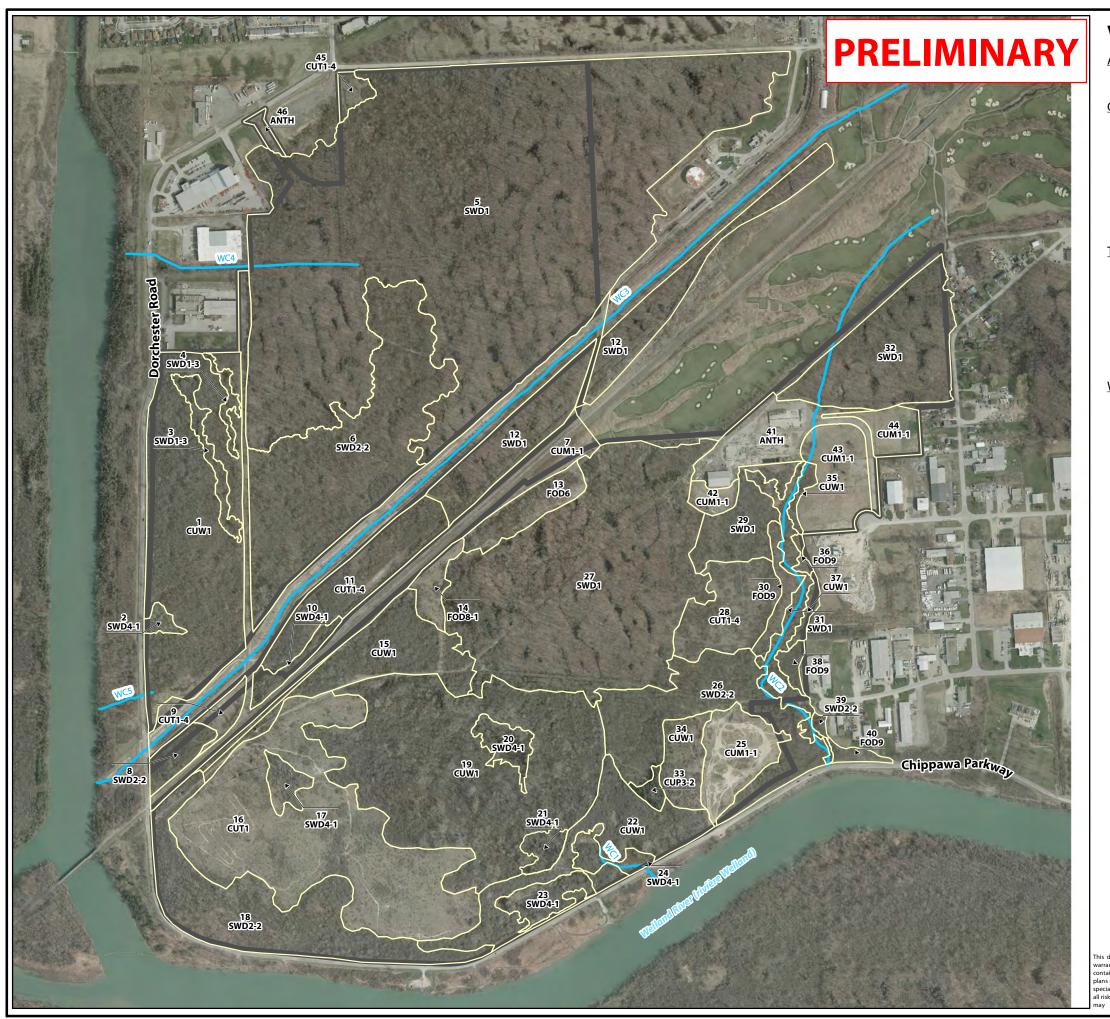












Vegetation Community Description

<u>Anthropogenic</u>

ANTH - Anthropogenic

<u>Cultural</u>

CUM1-1 - Dry - Moist Old Field Meadow

CUP3-2 - White Pine Coniferous Plantation

CUT1 - Mineral Cultural Thicket

CUT1-4 - Gray Dogwood Cultural Thicket

CUW1 - Mineral Cultural Woodland

<u>Terrestrial</u>

FOD6 - Fresh – Moist Sugar Maple Deciduous Forest

FOD8-1 - Fresh – Moist Poplar Deciduous Forest

FOD9 - Fresh – Moist Oak – Maple – Hickory Deciduous Forest

<u>Wetland</u>

SWD1 - Oak Mineral Deciduous Swamp

SWD1-3 - Pin Oak Mineral Deciduous Swamp

SWD2-2 - Green Ash Mineral Deciduous
Swamp

SWD4-1 - Willow Mineral Deciduous Swamp

Legend

Property Boundary

Water Courses (2015)

Vegetation Community
Boundary

Thundering Waters Secondary Plan Preliminary Natural Heritage Characterization Report (DRAFT)

Vegetation Communities



PROJECT: DA15-014-03

CLIENT: GR (CAN) Investments Ltd.



DATE: OCTOBER 2015

SCALE: 1:8,000

DRAWN BY: LC

S CHECKED BY: SH

Мар:

420

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Metres

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8. APPENDICES



APPENDIX A: TERMS OF REFERENCE (DRAFT)





Niagara Falls Paradise Development

"Draft" Terms of Reference for Environmental Impact Study Niagara Falls, Ontario

Prepared for:

GR(CAN) Investment Co., LTD

Prepared by:

Amec Foster Wheeler Environment & Infrastructure Dougan & Associates
C. Portt and Associates

July 2015

Project No. TP115026



THE PARADISE AT NIAGARA FALLS

"Draft" Terms of Reference Environmental Impact Assessment

Submitted to:

GR(CAN) Investment Co., LTD

Submitted by:

Amec Foster Wheeler Environment & Infrastructure

Dougan & Associates

C. Portt and Associates

July 2015

TP115026

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9	SCHEDULE	5.0

LIST OF APPENDICES

Appendix A Agency Consultation

1.0 PURPOSE/SCOPE OUTLINE

The Environmental Impact Study (EIS) is an important 'building block' for the Secondary Plan. It establishes a clear understanding of the environmental resources including the area features, their function and form. Fundamental components of the EIS include:

- Delineation of the provincially significant wetland boundary;
- Assessment of identified Regional Environmental Conservation Areas;
- Characterization of terrestrial and aquatic natural heritage features and their functions;
- Characterization of sensitivities and constraints related to natural heritage features and functions;
- Identification of ecological linkages;
- Recommendations of appropriate setbacks and buffers;
- Tree preservation;
- Mitigation measures; and
- Rehabilitation, enhancement, and management strategies.

Further details specific to the purpose of the EIS associated with the on-site fisheries and terrestrial systems is offered in the following:

Fish and Aquatic Habitat

The three main watercourses that traverse portions of the study are potentially accessible to fish from the Niagara River and Welland River. Therefore there is the potential for several fish species to use the watercourses on, and adjacent to, the site for spawning. These species include muskellunge (*Esox masquinongy*), northern pike (*Esox lucius*), grass pickerel (*Esox americanus*; a threatened species), and white sucker (*Catostomus commersonii*). There is also the matter of fishes that may permanently inhabit watercourses and waterbodies within the subject property. Based on discussions with the Ontario Ministry of Natural Resources and Forestry (MNRF) and the Niagara Peninsula Conservation Authority (NPCA), fish and fish habitat must be addressed as part of the Environmental Impact Study (EIS). Any development potentially affecting a fishery, either directly or indirectly, will also be subject to the federal Fisheries Act.

Terrestrial Natural Heritage

The Niagara Region EIS Guidelines provide the outline for what is required as part of an EIS to ensure that development meets the requirements of the Greenbelt Plan, the Provincial Policy Statement, Regional Policy Plan, and local Official Plans and By-laws, the Niagara Escarpment Plan, and Niagara Peninsula Conservation Authority (NPCA) Policies and Regulations.

Through consultation with the City, the NPCA, and MNRF, the need for an EIS has been established based on the factors outlined in Table 1 which outlines the natural heritage features that trigger the need for an EIS for the proposed project.

	Table 1: EIS Triggers		
	Is an EIS	required?	
NATURAL HERITAGE FEATURE	Development involves lands within the natural heritage feature	Development involves adjacent lands	To be addressed in EIS for Subject Property
Areas identified as Environmental Protect	ion Area (EPA)		
Provincially Significant Wetland (PSW)	Development not permitted – no EIS	EIS required for development within 120 metres	Yes
Provincially Significant Life Science Area of Natural and Scientific Interest (ANSI)	Development not permitted – no EIS	EIS required within 50 metres	No
Significant Portions of the Habitat of Threatened and Endangered Species	Where habitat requirements are well defined, development not permitted – no EIS. Where habitat requirements not well defined an EIS is required	EIS required for development within 50 metres. Habitat must be defined in consultation with the MNR	Yes
Significant natural heritage features within the Greenbelt Natural Heritage System	Development not permitted – no EIS	EIS required for development within 120 metres	No
Areas identified as Environmental Conservation	vation Area (ECA)		
Significant Woodlands	EIS required Tree Saving Plan required	EIS required for development within 50 metres	Yes
Significant Wildlife Habitat	EIS required	EIS required for development within 50 metres	Yes
Significant Habitat of Species of Concern	EIS required	EIS required for development within 50 metres	Yes
Critical Fish Habitat(type 1)	EIS required	EIS required for development within 30 metres	Yes
Other Fish Habitat (type 2 and 3)	EIS required	EIS required for development within 15 metres	Yes
Significant Valleylands	EIS required	EIS required for development within 50 metres	No
Other Evaluated Wetland	EIS required	EIS required for development within 50 metres	Yes
Other Features in the Greenbelt Plan			
Greenbelt Natural Heritage System	EIS required	EIS not required.	No
Key hydrologic feature	Development not permitted – no EIS	EIS required for development within 120 metres	No

Niagara Falls Paradise Development "Draft" Terms of Reference Environmental Impact Study Niagara Falls July 2015 Amec Foster Wheeler Environment & Infrastructure

The EIS that will be prepared for this development area will follow the guidelines and report structure that is outlined in the Region of Niagara EIS Guidelines document. Broadly, this will include the preparation of a constraints analysis and environmental impact study report.

As outlined in the EIS Guidelines, impacts shall be assessed for different phases of the development project (e.g. during site preparation and construction, and following the development); this includes identification of direct impacts, indirect impacts, and cumulative impacts. Opportunities to avoid potential impacts will be considered early in the process through a constraint assessment to determine where land-use/natural heritage conflicts can be resolved through design changes. Following this, mitigation, enhancement, and restoration strategies will be explored. Finally, residual impacts that cannot be addressed through design changes and mitigation/enhancement strategies will be identified, and considered for managing through off-site compensation.

Initial steps to ensure impacts of the proposed land development are minimized will require delineation of natural heritage feature boundaries, identifying appropriate setbacks at a local scale (i.e. buffers may vary across the site depending on sensitivities), and key hydrological linkages that are important for sustaining the function of the system

2.0 BACKGROUND INFORMATION

As part of the process to establish these detailed Terms of Reference, a series of meetings and follow-up consultation were held with the City of Niagara Falls, Region of Niagara, NPCA, and MNRF. Each party was requested to provide access to available relevant information to support the preparation of an EIS; the following provides a summary of specific information related to Fisheries and Terrestrial Resources.

Fish and Aquatic Habitat

The Ministry of Natural Resources and Forestry (MNRF) and the Niagara Peninsula Conservation Authority (NPCA) were contacted regarding existing information on the fish habitat and communities in the watercourses on the site. There are no data available from either agency. The nearby and adjacent, Niagara River and Welland River respectively, support diverse fish communities and support recreational fisheries, hence will require consideration in the assessment.

Terrestrial Natural Heritage

The NPCA and MNRF indicated that various types of information are available for the property, including but not limited to natural heritage reports, element occurrence records, and incidental species occurrence records.

Natural heritage information for previous studies will be used for baseline information. NPCA indicated that this information and other species records for the property can be provided.

The Niagara Region Natural Area Inventory will be used to characterize vegetation characteristics and ecological function of similar systems in the area.

Element occurrence records from the MNRF Guelph District and the Natural Heritage Information Centre will be used to identify species at risk, and provincially rare species that are present in the area, and that may occur on the property.

3.0 CONSULTATION

As noted, various meetings and follow-up consultation has been held with the respective stakeholders and agency partners (ref. Appendix A). The following provides a summary of relevant consultation.

Fish and Aquatic Habitat

As noted, neither the MNRF nor the NPCA have any information regarding fish and fish habitat on the site. It was recommended by MNRF that fish sampling and habitat characterization be undertaken and a Licence to Collect Fish for Scientific Purposes for watercourses on the site was issued to C. Portt and Associates. MNRF (ref. Pers. Comm. A. Yagi) also recommended that aquatic habitat on the site, fish access from adjacent waterbodies, and the potential effects of water management on the golf course be assessed. The MNRF and NPCA have both requested that access to the OPG property be arranged and the potential for fish accessing the Con Rail Drain be determined. It was agreed at the April 21, 2015 meeting (ref. Appendix A) with NPCA that a formal headwater drainage feature assessment would not be necessary, given the ephemeral nature of the watercourses/drainage features.

Terrestrial Natural Heritage

Niagara Peninsula Conservation Authority

The NPCA was consulted and staff provided direction on the following items:

- Mapping that shows the extent and location of wetland boundaries and environmental conservation areas boundaries
- Natural Heritage work previously conducted on the property was reported in a 2009 Environmental Impact Statement. NPCA advised that this could be used as a baseline for information on plant communities and species present; NPCA will provide this report to the team
- That a number of surveys have not been conducted for the site, including bat habitat surveys, crepuscular bird surveys, and White Wood Aster surveys.
- Wetland boundary delineation on the ground would have to be coordinated with MNRF
- Woodlands are identified as Regional Environmental Conservation Area and will need to be assessed using the appropriate criteria for their significance
- Occurrence and habitat for reptiles (including snakes and turtles) can be determined through incidental observations while on-site for other studies
- Corridors and linkages will need to be characterized to connectivity of natural areas to the surrounding system
- Potential impacts to vernal pools can be addressed through understanding changes to their hydrology using topographic information and micro-catchment characteristics; detailed assessment using feature based water balance and/or ground water monitoring would not be required
- Consideration of trails within wetlands and buffers

Ministry of Natural Resources and Forestry

Consultation with the MNRF confirmed that wetland boundary verification will need to be conducted with the MNRF biologist. This will require visiting the site with the MNRF to confirm and survey wetland boundaries. MNRF also indicated that targeted species at risk surveys may need to be conducted for species that are likely to occur on the property.

4.0 WORK PLAN TASKS

A. Fish and Aquatic Habitat

C. Portt and Associates has conducted initial spring inventories as follows, plus based on agency partners consultation, established follow-on tasks related to fisheries management:

 Request any background information available from the MNRF and NPCA regarding the fish community in the watercourses and acquire a Licence to Collect Fish for Scientific Purposes.

Completed. Meeting with NPCA and telephone discussion with MNRF

2. Conduct field investigations to characterize the habitat conditions (presence/absence of flow, wetted channel dimensions, substrate, presence/absence of barriers to migration) and look for spawning fish in all watercourses that occur on the property during the spring spawning period.

Completed April 11, 12, and 21, 2015.

- 3. Obtain amphibian trapping information conducted upon vernal pools by Dougan and Associates. Fish are often captured incidentally during this work (minnow traps are used) and therefore may indicate which pools are utilized by fish.
- 4. Conduct fish sampling by either seining or electrofishing later in the spring or in early summer when individuals spawned this spring will be susceptible to capture. *Completed June 11, 2015.*
- 5. Arrange for access to OPG property to examine the potential for fish access into the Conrail Drain. This has been required by MNRF and NPCA.

 Contact has been made, but date not scheduled.
- 6. Investigate the potential for water management/augmentation within the existing golf course, and how this affects flows in the study area watercourses. Must contact golf course maintenance department.
- 7. Re-examine fish habitat, stream flow, and fish communities (by electrofishing/observation) during the usual late summer low flow period.
- 8. Prepare a report summarizing the background information and the results and significance of the field investigations.

B. Terrestrial Natural Heritage

Dougan & Associates conducted botanical inventories, ecological land classification surveys, breeding bird surveys, and amphibian surveys during the spring of 2015. To date, this information has confirmed that the existing Ministry of Natural Resources and Forestry wetland mapping provides a good representation of the extent and boundaries of existing wetland features on the ground. Other areas of the site are dominated by young deciduous forest, shrub thickets, and open meadows. The wetland features provide high quality habitat for various amphibian species include frogs, toads, and salamanders. Additionally, a diverse bird and wildlife community is support by the mix of habitat types. The following provides specific details as to the scope completed to-date and that which is proposed.

1. Nocturnal Amphibian Surveys - Complete

Point counts established across the site to document the frog and toad species and relative abundance. Survey conducted April, May, and June.

2. Breeding Bird Surveys - Complete

Transects and point counts to document breeding birds present across the site. Surveys conducted May and June.

3. Early Season Ecological Land Classification and Vegetation Inventory - Complete

Site inventory and boundary delineation of vegetation communities across the site and inventory of early season plants. Surveys conducted during May and June.

4. Wetland Boundary Delineation

Field verify the Provincially Significant Wetland boundary through site investigation and on the ground staking. Follow up visit with MNRF biologist to confirm wetland boundary and capture coordinates using high-accuracy GPS (Trimble Geo XH).

5. Summer & Fall Vegetation Surveys

Summer and fall vegetation surveys to complement the spring inventory work that was completed. In addition to documenting the flora present, targeted surveys will be conducted for SAR species such as White Wood Aster. Inventory will be combined with other field visits such as wetland boundary delineation, and other SAR surveys that are required.

6. Species at Risk Surveys

Meeting with NPCA and MNRF to confirm Species at Risk that are known to be present at the site or have high potential to be present. Targeted field inventory to validate NPCA and MNRF information for the species of interest.

7. Early Season Summary report – in progress

Technical memorandum documenting findings of early season wildlife and plant inventory work. Preliminary ELC mapping and quantitative summary of vegetation communities.

C. Combined EIS Tasks

1. Characterization and Evaluation of Significance Report

Building on the early season summary, field inventory results will be presented in a overall characterization report. The report will document species observed, vegetation community types present, ecological functions of supporting flora and fauna, status of species present, and important policy boundaries (e.g. wetlands, woodlands, Environmental Conservation Areas), fisheries, and associated habitat. Findings will be used to provide recommendations for appropriate setbacks and fisheries management and will be integrated into the land use planning process throughout the characterization stage of the project.

2. Integration of Land Use Plan and Constraints Report

The draft land use plan will be integrated with the terrestrial natural heritage information and fisheries habitat information to identify consistencies and conflicts with features and proposed protection areas. Preliminary restoration opportunities will be identified. At this stage, impacts that can be avoided through updates to the land use plan will be recommended.

3. Impact Assessment and Management Recommendations Report

The impact analysis will summarize the expected direct, indirect, and cumulative impacts that will result from the proposed land use plan. Opportunities for mitigation, restoration, and enhancement will be explored and recommended based on the types and extent of features lost, complementary land use types, and sustainable long-term management strategies. Where necessary to address residual impacts that cannot be addressed onsite, off-site areas will be evaluated through desktop analysis to determine if natural features in the vicinity of the site could be integrated into a broader restoration plan. Based on the proposed restoration and management strategies, monitoring requirements will also be identified.

5.0 SCHEDULE

The EIS will basically involve three (3) primary stages scheduled as follows:

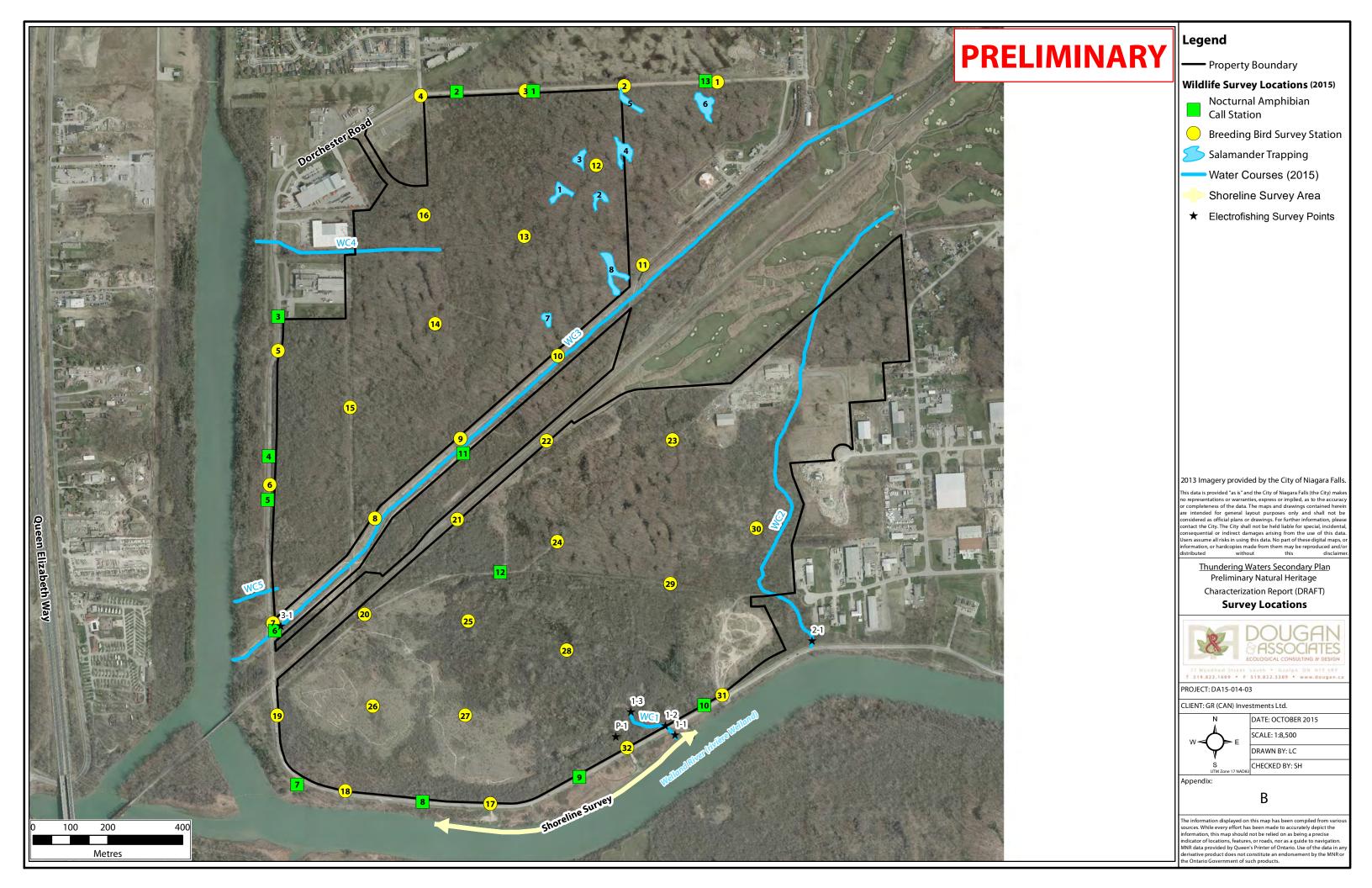
- 1. Seasonal Field Data Collection: Spring, Summer, Fall, 2015
- 2. Site Characterization: Fall 2015/Winter 2016
- 3. Impact Assessment/Management Strategies: Winter/Spring 2016



Appendix A Agency Consultation

APPENDIX B: WILDLIFE SURVEY LOCATIONS





APPENDIX C: NHIC QUERY RESULTS



ment rance ID	Scientific Name	Comman Name	S Rank	COSEWIC	Last Observed	MNRF Status	Extirpat
	Asimono filmono a 2	Lake Sturgeon (Great Lakes - Upper	62	5	2011	TUD	
104195	Acipenser fulvescens pop. 3	St. Lawrence River population)	S2	THR	2011-pre	THR	N
10.133		Laba Characa (Casat Labas Haraca					
	Acipenser fulvescens pop. 3	Lake Sturgeon (Great Lakes - Upper St. Lawrence River population)	S2	THR	2011-09-01	THR	N
104202			CAR	T110	2000 0 0	7110	
	Sturnella magna Polygala incarnata	Eastern Meadowlark Pink Milkwort	S4B S1	THR END	2008-8-3 1823	THR END	N Y
	Morus rubra	Red Mulberry	S2	END	1890-pre	END	N N
	Justicia americana	American Water-willow	S1	THR	2007-10-04	THR	N
129	Nycticorax nycticorax	Black-crowned Night-heron	S3B,S3N		1991-06-04		N
	RESTRICTED	RESTRICTED			1943-PRE		Υ
	Phegopteris hexagonoptera	Broad Beech Fern	S3	SC	1890's	SC	Υ
	Ipomoea pandurata Vaccinium stamineum	Big-root Morning Glory Deerberry	S1 S1	THR	1902-08-15 1896-05-26	THR	N Y
	Colinus virginianus	Northern Bobwhite	S1	END	1900	END	Y
	Lespedeza frutescens	Violet Bush-clover	S1	LIVE	1891-07-16	LIVE	Y
22513	Falco peregrinus	Peregrine Falcon	S3B	SC	2008-06-10	THR	N
23025	Nycticorax nycticorax	Black-crowned Night-heron	S3B,S3N		1991		N
	Nycticorax nycticorax	Black-crowned Night-heron	S3B,S3N		1991		N
	Nuphar advena	Large Yellow Pond-lily	S3		2004		N
	Oenothera gaura Polygonum erectum	Biennial Gaura Erect Knotweed	S3 SH		2004 1895-09-14		N Y
	Crataegus pruinosa var. dissona	Northern Hawthorn	S3		1905-09-27		N
	Crataegus pruinosa var. dissona	Northern Hawthorn	S3		1982-06-11		N
2545	Crataegus pruinosa var. dissona	Northern Hawthorn	S3		1977-05-18		N
	Crataegus formosa	Waxy-fruit Hawthorn	S2		1977-09-16		N
	Aureolaria virginica	Downy Yellow False Foxglove	S1		1945-08-02		Υ
	Hybanthus concolor	Eastern Green-violet	S2		1901-05-16		N
	Viola rotundifolia Carex hirsutella	Round-leaved Yellow Violet Hairy Green Sedge	SH S3		1892-06 1981		Y N
	Carex appalachica	Appalachian Sedge	S2S3		1882-07-05		N
	Schoenoplectiella smithii	Smith's Bulrush	S3		1896-08		Υ
3080	Schoenoplectiella smithii	Smith's Bulrush	S3		1896-09-05		Y
	Chamaelirium luteum	Fairywand	SX		1897-06-19		Y
	Chamaelirium luteum	Fairywand	SX S1		1891-06-12		Y
	Uvularia perfoliata Emydoidea blandingii	Perfoliate Bellwort Blanding's Turtle	S3	THR	1904-05-24 1985	THR	N N
	Aristida dichotoma	Churchmouse Threeawn Grass	S1	TTIK	1995-09-13	HIIX	N
	Gentianella quinquefolia	Stiff Gentian	S2		1894-09-03		Y
3316	Spiranthes lacera var. gracilis	Southern Slender Ladies'-tresses	S1		1896-09-05		Υ
	Colorado e la como como ella	Southern Slender Ladies'-tresses	S1		1908		Υ
3319							
33691	Oenothera gaura	Biennial Gaura	S3		1995-09-13		N
33691 3397	Oenothera gaura Dichanthelium praecocius	White-haired Panicgrass	\$3 \$3		1995-09-13 1902-06-17		N
33691 3397 3463	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora	White-haired Panicgrass Slim-flowered Muhly	\$3 \$3 \$2		1995-09-13 1902-06-17 1849-08-02		N N
33691 3397 3463 3466	Oenothera gaura Dichanthelium praecocius	White-haired Panicgrass	\$3 \$3		1995-09-13 1902-06-17		N
33691 3397 3463 3466 3488	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly	\$3 \$3 \$2 \$2	THR	1995-09-13 1902-06-17 1849-08-02 1948-08-20	THR	N N N
33691 3397 3463 3466 3488 3548 4960	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake	\$3 \$3 \$2 \$2 \$1 \$2 \$X	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22	EXP	N N N Y N
33691 3397 3463 3466 3488 3548 4960 5076	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster	\$3 \$3 \$2 \$2 \$2 \$1 \$2 \$2 \$X \$2		1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893		N N N Y N Y
33691 3397 3463 3466 3488 3548 4960 5076 5331	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22	EXP	N N N Y N Y Y
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07	EXP	N N N Y N Y Y Y
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 5536	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn	\$3 \$3 \$2 \$2 \$1 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$3 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07	EXP	N N N Y Y Y Y N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 5536	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07	EXP	N N N Y N Y Y Y
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 5536 59422 59831 59930	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$2 \$3 \$2 \$3 \$2 \$3 \$2 \$3 \$2 \$3 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$5 \$4 \$4 \$5 \$4 \$4 \$5 \$4 \$4 \$4 \$4 \$5 \$4 \$4 \$5 \$4 \$5 \$4 \$5 \$4 \$5 \$5 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07	EXP	N N N Y Y Y Y N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 5536 59422 59831 59930 59945	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$2 \$3 \$3 \$2 \$3 \$2 \$3 \$2 \$2 \$3 \$2 \$3 \$4 \$4 \$5 \$4 \$5 \$5 \$5 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16	EXP	N N N Y Y Y Y Y N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 59422 59831 59930 59945	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$2 \$3 \$3 \$2 \$3 \$2 \$3 \$3 \$3 \$3 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03	EXP	N N N N N N N N N N N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 59422 59831 59930 60032 60111	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica Thaspium barbinode	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum Hairy-jointed Meadow-parsnip	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$5 \$2 \$X \$1 \$2 \$2 \$3 \$3 \$2 \$3 \$3 \$2 \$3 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03 1901-07-04	EXP	N N N N N N N N N N N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 5942 59831 59930 60032 60111 60276	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica Thaspium barbinode Monarda didyma	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum Hairy-jointed Meadow-parsnip Scarlet Beebalm	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$3 \$3 \$4 \$5 \$6 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03 1901-07-04 1904	EXP	N N N N N N N N N N N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 55942 59945 60032 60111 60276 65007	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica Thaspium barbinode Monarda didyma Dichanthelium clandestinum	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum Hairy-jointed Meadow-parsnip Scarlet Beebalm Deer-tongue Panicgrass	\$3 \$3 \$2 \$2 \$1 \$2 \$2 \$X \$2 \$X \$1 \$2 \$2 \$X \$1 \$2 \$2 \$3 \$3 \$2 \$3 \$2 \$3 \$2 \$3 \$2 \$3 \$3 \$3 \$4 \$5 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3	EXP THR	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03 1901-07-04 1904 1995-09-13	EXP THR	N N N N N N N N N N N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 59422 59831 59945 60032 60111 60276 65007 66852	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica Thaspium barbinode Monarda didyma	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum Hairy-jointed Meadow-parsnip Scarlet Beebalm	\$3 \$3 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$2 \$X \$3 \$3 \$4 \$5 \$6 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7	EXP	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03 1901-07-04 1904	EXP	N N N N N N N N N N N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 59422 59831 59945 60032 60111 60276 65007 66852 67477	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica Thaspium barbinode Monarda didyma Dichanthelium clandestinum Eurybia divaricata	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum Hairy-jointed Meadow-parsnip Scarlet Beebalm Deer-tongue Panicgrass White Wood Aster	\$3 \$3 \$2 \$2 \$2 \$1 \$2 \$2 \$X \$2 \$X \$1 \$2 \$3 \$3 \$2 \$3 \$3 \$2 \$3 \$3 \$3 \$4 \$5 \$2 \$5 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	EXP THR	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03 1901-07-04 1904 1995-09-13 2002-09-12	EXP THR	N N N N N N N N N N N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5532 59422 59831 59930 60111 60276 65007 66852 67477 67880 67990	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica Thaspium barbinode Monarda didyma Dichanthelium clandestinum Eurybia divaricata Pleurobema sintoxia Arigomphus villosipes Ptychobranchus fasciolaris	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum Hairy-jointed Meadow-parsnip Scarlet Beebalm Deer-tongue Panicgrass White Wood Aster Round Pigtoe Unicorn Clubtail Kidneyshell	\$3 \$3 \$2 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$1 \$3 \$2 \$3 \$3 \$2 \$3 \$3 \$2 \$3 \$3 \$2 \$3 \$3 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	EXP THR THR END	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03 1901-07-04 1904 1995-09-13 2002-09-12 1934-06-20 1934-06-20	EXP THR THR THR END	N N N Y Y Y Y N N N N N N N N N N N N N
33691 3397 3463 3466 3488 3548 4960 5076 5331 5536 59422 59831 59930 60032 60111 60276 65007 66852 67477 67880 67990 7479	Oenothera gaura Dichanthelium praecocius Muhlenbergia tenuiflora Muhlenbergia tenuiflora Sphenopholis nitida Smilax rotundifolia Crotalus horridus Eurybia divaricata Desmodium ciliare Crataegus beata Crataegus intricata Juncus acuminatus Desmodium rotundifolium Linum medium var. medium Linum virginianum Nyssa sylvatica Thaspium barbinode Monarda didyma Dichanthelium clandestinum Eurybia divaricata Pleurobema sintoxia Arigomphus villosipes	White-haired Panicgrass Slim-flowered Muhly Slim-flowered Muhly Shiny Wedge Grass Round-leaved Greenbrier Timber Rattlesnake White Wood Aster Hairy Small-leaved Tick-trefoil Dunbar's Hawthorn Copenhagan Hawthorn Sharp-fruited Rush Prostrate Tick-trefoil Stiff Yellow Flax Woodland Flax Black Gum Hairy-jointed Meadow-parsnip Scarlet Beebalm Deer-tongue Panicgrass White Wood Aster Round Pigtoe Unicorn Clubtail	\$3 \$3 \$2 \$2 \$2 \$1 \$2 \$X \$2 \$X \$2 \$X \$1 \$3 \$2 \$3 \$3 \$2 \$3 \$3 \$5 \$3 \$5 \$3 \$5 \$3 \$5 \$3 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	EXP THR	1995-09-13 1902-06-17 1849-08-02 1948-08-20 1892-06-26 1989-03-14 1941-08-22 1893 1887-07 1912-10-07 1901-07-08 1906-09-03 1877-07-27 1897-07-16 1949-06-03 1901-07-04 1904 1995-09-13 2002-09-12 1934-06-20	EXP THR THR	N N N Y Y Y Y N N N N N N N N N N N N N

Element							
Occurance ID	Scientific Name	Comman Name	S Rank	COSEWIC	Last Observed	MNRF Status	Extirpated
92208	Chimaphila maculata	Spotted Wintergreen	S1	END	1895	END	N
92209	Hibiscus moscheutos	Swamp Rose-mallow	S3	SC	2004	SC	N
92417	Frasera caroliniensis	American Columbo	S2	END	1890's	END	N
93491	Ligumia nasuta	Eastern Pondmussel	S1	END	1988-06-16	END	N
93594	Peltandra virginica	Green Arrow-arum	S2		2004		N
93603	Spiranthes magnicamporum	Great Plains Ladies'-tresses	S3?		2004		N
93604	Carya laciniosa	Shellbark Hickory	S3		2004		N
93605	Persicaria arifolia	Halberd-leaved Tearthumb	S3		2004		N
94937	Cornus florida	Eastern Flowering Dogwood	S2?	END	2008-06-17	END	N
95005	Cornus florida	Eastern Flowering Dogwood	S2?	END	1986-06-19	END	N
95120	Juglans cinerea	Butternut	S3?	END	2008-08-00	END	N
96036	Chelydra serpentina	Snapping Turtle	S3	SC	2010-06-29	SC	N

APPENDIX D: ECOLOGICAL LAND CLASSIFICATION DATA SHEETS



EL	С	SITE:	GON:		~				-	ELC	SITE:	ON: 650				
		DATE	;							PLANT SPECIES	DATE:		56,2015			_
SOILS ON	ITARIO		EYOR(S):							LIST		YOR(S):		C.L.		_
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ELC	SITE					POL	YGON:		
COMMUNITY	SURVE	YOR(S)			DATE		IME star		
DESCRIPTION & CLASSIFICATION	UTMZ:		UTME		1	JTMN:			1
POLYGON DE	ESCRII	PTION							
SYSTEM	SUBS	STRATI	ET	OPOGRAPHIC FEATURE	HISTORY	PL	ANT FORM	CO	MUNITY
G TERRESTRIAL	G org	ANIC	Ģ	LACUSTRINE RIVERINE	G NATURAL	G P	ANKTON UBMERGED	G LAI G PO	Œ
G WETLAND G AQUATIC	G PARI	ERAL SOIL ENT MIN. HC BEDRI C BEDRIK	GGGG	BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL. UPLAND	G cultural	GGGGG	OATING-LVD.	G STI G STI G SW G SW G BO	ER REAM RSH IAMP N
SITE	G CAR	8, BEDRK	" G	CLIFF TALUS CREVICE / CAVE ALVAR	COVER	G G	ONIFEROUS	G BA	RREN ADOW
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G	ROCKLAND BEACH / BAR SAND DUNE BLUFF	G OPEN G SHRUB G TREED			G TH G SA G FO	ICKET VANNAH DODLAND
STAND DESC	RIPTIC	N:							-40
LAYER	нт	CVR	(>>		RDER OF DECRE/ ER THAN; > GRE				
1 CANOPY									
2 SUB-CANOPY									
3 UNDERSTOREY									
4 GRD. LAYER			2						
STAND COMPOSIT	ION:							BA:	
SIZE CLASS AN	ALYSIS:	-		< 10	10 - 24	3 2 1	25 - 50		> 50
STANDING SNAC	GS:		Т	< 10	10 - 24		25 - 50		> 50
DEADFALL / LOC	SS:			< 10	10 - 24		25 - 50		> 50
ABUNDANCE CODE	ES: N	= NONE	R	= RARE O =	OCCASIONAL	A = /	ABUNDANT		
COMM. AGE :		PIONE	R	YOUNG	MID-AGE		MATURE		OLD GROWTH
SOIL ANALYS	is.								OKO, III
TEXTURE:			D	EPTH TO MOT	ITLES / GLEY	g =		G=	
MOISTURE:			D	EPTH OF ORC	SANICS:				(cm)
HOMOGENEOUS	VAF	RIABLE	D	EPTH TO BED	ROCK:				(cm)
COMMUNITY	CLASS	SIFICA	TION	l:			EL	C CC	DE
COMMUNITY	CLASS	:							
COMMUNITY	SERIES	:							
E	COSITE	:							
VEGETATIO	N TYPE								
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COMPL	EX						17.05		
Notes:						111			

ELC		SITE: T	Tumben	ing Was	ters		
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CHARACTERIST	ncs	SURVEYOR	(S):	24.	DW		
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SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
		_					
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TOTAL							100
BASAL AREA (BA)							
DEAD							
STAND COMPOSITION	l:						
COMMUNITY PROFILE	DIAGRAM						
Notes:						190	

ELC SOILS ONTARIO	POLYGON: DATE:			m thickety open sect	ELC PLANT SPECIES	POLYGON DATE:	050 Ma	6003		
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P/A PP Dr Position Asp	Slope	Class Z	EASTING	TM NORTHING	LAYERS: 1= ABUNDANCE CODES: R=			NDERSTOREY 4 = GROUND (C INDANT D = DOMINANT	RD.) LAYER	
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COMMUNITY DESCRIPTION &	SURVE	YOR(S):		DATE:	T	ME. start finish	
CLASSIFICATION	UTMZ:	I	JTME:	F	UTMN:		
POLYGON D	ESCRII	PTION					
SYSTEM		STRATE	TOPOGRAPHIC FEATURE	HISTORY	PL/	NT FORM	COMMUNITY
G TERRESTRIAL	G org	ANIC	G LACUSTRINE	G NATURAL		ANKTON	G LAKE
G WETLAND	-	RAL SOIL	G RIVERINE G BOTTOMLAND G TERRACE	G CULTURAL	IG FL	BMERGED OATING-LVD.	G POND G RIVER
G AQUATIC	G PARI	ENT MIN.	G TERRACE G VALLEY SLOPE		G Fo	RB	G STREAM G MARSH
	1000	HC BEDRK.	G TABLELAND G ROLL, UPLAND		- IG ⊔o	HEN YOPHYTE	G SWAMP G FEN
		C BEDRK,	G CLIFF G TALUS	_		CIDUOUS	G BOG G BARREN
SITE	G CAR	B. BEDRK.	G CREVICE / CAVE	COVER	G MI	XED	G MEADOW G PRAIRIE
G OPEN WATER			G ROCKLAND G BEACH / BAR	G OPEN			G THICKET G SAVANNAH
G SHALLOW WATER			G SAND DUNE G BLUFF	G SHRUB			G WOODLAND G FOREST
G SURFICIAL DEP. G BEDROCK			G BLUFF	G TREED			G PLANTATION
STAND DESC	PIPTIC	M·					
Mary and the same of				RDER OF DECRE			
LAYER	НТ	CVR	(>> MUCH GREAT	ER THAN; > GRE	ATER T	HAN; = ABO	UT EQUAL TO)
1 CANOPY							
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3 UNDERSTORE	1						
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4 GRD. LAYER HT CODES: CVR CODES	1 = >25 r 0= NONE						
4 GRD. LAYER HT CODES:	1 = >25 r 0= NONE	1=0%<					
4 GRD. LAYER HT CODES: CVR CODES STAND COMPOSIT SIZE CLASS AN	1 = >25 r 0= NONE 70N:	1=0%<	CVR 10% 2= 10 < CV	/R 25% 3= 25 < C\	VR 60%	4= CVR > 60%	BA:
GRD. LAYER HT CODES: CVR CODES STAND COMPOSIT	1 = >25 r D= NONE TON: ALYSIS:	1=0%<	CVR 10% 2=10 < CV	/R 25% 3= 25 < C\	VR - 60%	4= CVR > 60%	BA: > 50
4 GRD. LAYER HT CODES: CVR CODES STAND COMPOSIT SIZE CLASS AN. STANDING SNA DEADFALL / LO	1 = >25 r D= NONE TION: ALYSIS: GS:	1=0%<	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	/R 25% 3= 25 < C\	VR - 60%	4= CVR > 60% 25 - 50 25 - 50	BA: > 50 > 50
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GRD. LAYER HT CODES: CVR CODES STAND COMPOSIT SIZE CLASS AN. STANDING SNA DEADFALL / LO ABUNDANCE COD COMM. AGE: SOIL ANALYS TEXTURE: MOISTURE: HOMOGENEOUS	1 = >25 r D= NONE O=NONE ALYSIS: GS: GS: ES: N CLASS / CLASS	= NONE PIONEEI RIABLE BIFICAT	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 TTLES / GLEY GANICS:	A = A	4= CVR > 60% 25 - 50 25 - 50 25 - 50 BUNDANT MATURE	BA: > 50
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GRD. LAYER HT CODES: CVR CODES STAND COMPOSIT SIZE CLASS AN. STANDING SNA DEADFALL / LO ABUNDANCE COD COMM. AGE: SOIL ANALYS TEXTURE: MOISTURE: HOMOGENEOUS COMMUNITY COMMUNITY	1 = >25 r D= NONE TION: ALYSIS: GS: GS: ES: N CLASS / CLASS SERIES COSITE	= NONE PIONEEI RIABLE SIFICAT S:	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 TTLES / GLEY GANICS:	A = A	4= CVR > 60% 25 - 50 25 - 50 25 - 50 BUNDANT MATURE	BA: > 50

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	SITE:
ELC	POLYGON:
STAND	DATE:
CHARACTERISTICS	SURVEYOR(S):

TREE TALLY BY SPECIES:

PRISM FACTO	K						
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TOTAL							100
BASAL AREA (BA)							
DEAD							

OMMUNITY PR	OFILE DIAGRAM	Î	

	LC		SITE:									
			POLYGON:									
SOILS	ONTARIO		DATE:									
				YOR(S):					1774			
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										MAS		

SITE:

	SITE: Thronder in water
ELC	POLYGON: 7506007
PLANT SPECIES	DATE: May 6, 2515
LIST	SURVEYOR(S): ZH, W

1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER LAYERS: ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

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	ELC	SITE					POLYGON:	
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PC	DLYGON DE	SCRII	PTION					1972
	SYSTEM	SUB	STRATE	TC	POGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G	TERRESTRIAL WETLAND AQUATIC	G PARI	ANIC ERAL SOIL ENT MIN. HC BEDRK, C BEDRK,	GGGGGGG	ACUSTRINE RIVERINE BOTTOMLAND ERRACE VALLEY SLOPE ROLL. UPLAND CLIFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BECIDUOUS	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG
	SITE	G car	9. BEDRK.	G	TALUS CREVICE / CAVE ALVAR	COVER	G CONIFEROUS G MIXED	G BARREN G MEADOW G PRAIRIE
Ğ	OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK			G	ROCKLAND BEACH / BAR SAND DUNE BLUFF	G OPEN G SHRUB G TREED		G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
รา	AND DESCR	RIPTIC	N:					
	LAYER	нт	CVR				ASING DOMINANCE ATER THAN; = AB	
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	R CODES	0= NONE	1= 0% < 0	VR	10% 2= 10 < CV	R 25% 3= 25 < C\	/R 60% 4= CVR > 60	1%
ST	AND COMPOSITI	ON:						BA:
SIZ	ZE CLASS ANA	LYSIS:			< 10	10 - 24	25 - 50	> 50
ST	ANDING SNAG	S:		Т	< 10	10 - 24	25 - 50	> 50
DE	ADFALL / LOG	S:			< 10	10 - 24	25 - 50	> 50
AB	UNDANCE CODE	s: N	= NONE	R=	RARE O=	OCCASIONAL	A = ABUNDANT	
CC	MARIE ACE.						1	
	OMM. AGE :		PIONEER		YOUNG	MID-AGE	MATURE	OLD
~		0.	PIONEER		YOUNG	MID-AGE	MATURE	OLD GROWTH
	DIL ANALYS	S:	PIONEER	DE				
TE		S:	PIONEER	-		TLES / GLEY	g =	GROWTH
TE MC	DIL ANALYS			DE	РТН ТО М ОТ	TLES / GLEY		GROWTH
MC HC	DIL ANALYS EXTURE: DISTURE: DMOGENEOUS	/ VAR	RIABLE	DE	PTH TO MOT PTH OF ORG PTH TO BED	TLES / GLEY	g =	GROWTH G= (cm
MC HC	DIL ANALYS	/ VAR	RIABLE SIFICATI	DE	PTH TO MOT PTH OF ORG PTH TO BED	TLES / GLEY	g =	GROWTH G= (cm
MC HC	DIL ANALYSI EXTURE: DISTURE: DIMOGENEOUS	/ VAR	RIABLE SIFICATI	DE	PTH TO MOT PTH OF ORG PTH TO BED	TLES / GLEY	g =	GROWTH G= (cm
MC HC	DIL ANALYSI XTURE: DISTURE: DMOGENEOUS DMMUNITY COMMUNITY	/ VAR	RIABLE SIFICATI	DE	PTH TO MOT PTH OF ORG PTH TO BED	TLES / GLEY	g =	GROWTH G= (cm
MC HC	DIL ANALYSI XTURE: DISTURE: DMOGENEOUS DMMUNITY COMMUNITY	/ VARCLASS	RIABLE SIFICATI S:	DE	PTH TO MOT PTH OF ORG PTH TO BED	TLES / GLEY	g =	GROWTH G= (cm

Notes:

COMPLEX

ELC	SITE:	
ELG	POLYGON:	
STAND	DATE:	
CHARACTERISTICS	SURVEYOR(S):	

TREE TALLY BY SPECIES:

STAND COMPOSITION:

PRISM FACTO	R						
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
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TOTAL							100
BASAL AREA (BA)							
DEAD	2001						

COMMUNITY PRO	OFILE DIAGRAM		
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ELC	SITE: POLYGON:				2 12 40 114	ELC		POLYGON: 0506004 - Z Lung and						
SOILS ONTARIO	DATE:				The over	PLANT SPECIES		DATE: May b. 2015						
- COLO ONTANIO	SURVEYOR(S):				I was	LIST	-	URVEYOR	(S):	14, DW				
a landa da ur	Slope		UTI		- Androse		CANOPY			NDERSTOREY 4 = GROUND (GR	D.) LAYER			
A PP Dr Position	Aspect % Type	Class Z	EASTING	NORTHING	- Color	ABUNDANCE CODES: R =		AYER	NAL A = ABU	NDANI DE DOMINANI	LAYE			
				1403		SPECIES CODE	-	1 1	COL.	SPECIES CODE	-	C		
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ELC	SITE.						POLYC	YGON:				
COMMUNITY	SURVE	YOR(S)			DATE		TIM	IE start finish				
DESCRIPTION & CLASSIFICATION		- 1	JTME:			- In	TMN		_	-		
CLASSIFICATION	UTMZ:		IIME.				I IVIIV					
POLYGON DE	SCRI	PTION										
SYSTEM	SUBS	STRATE		POGRAPHIC FEATURE	HIST	ORY	PLAI	NT FORM		MUNITY		
G TERRESTRIAL	G ORG		GL	ACUSTRINE EVERINE	G NATUR			MERGED	G LAK	E 4D		
G WETLAND	-	RAL SOIL	IGв	OTTOMLAND ERRACE			G FLO	ATING-LVD. MINOID	G RIVI	ER EAM		
G AQUATIC	G PARE		۱G۷	ALLEY SLOPE			G FOR	8	G MAF	RSH		
	100	IC BEDRK. C BEDRK.	(iR	ABLELAND OLL. UPLAND			G LICH	OPHYTE	G FEN			
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SITE			IG A	REVICE / CAVE LVAR			G MIXED		G MEADOW G PRAIRIE			
G OPEN WATER			IG E	OCKLAND BEACH / BAR	G OPEN				G THICKET G SAVANNAH			
G SHALLOW WATER G SURFICIAL DEP.			Gs	AND DUNE	G SHRUB				G WOODLAND G FOREST			
G BEDROCK			0.	LOFF	G TREED				G PLA	NOTATION		
STAND DESCI	RIPTIO	N:										
LAYER	нт	CVR	; (>> l	SPECIES IN O	RDER OF I	> GREA	SING DO	MINANCE (AN; = ABO	up to 4 UT EQL	sp) JAL TO)		
1 CANOPY												
2 SUB-CANOPY												
3 UNDERSTOREY												
4 GRD. LAYER												
HT CODES:	1 m > 25 m	n 2 = 10<	T 25 m	3 = 2 <ht-10 m<="" th=""><th>4 = 1<ht< th=""><th>2 m 5 = 0</th><th>.5<ht 1="" r<="" th=""><th>n 6 = 0.2<ht< th=""><th>0.5 m 7</th><th>= HT<0.2 m</th></ht<></th></ht></th></ht<></th></ht-10>	4 = 1 <ht< th=""><th>2 m 5 = 0</th><th>.5<ht 1="" r<="" th=""><th>n 6 = 0.2<ht< th=""><th>0.5 m 7</th><th>= HT<0.2 m</th></ht<></th></ht></th></ht<>	2 m 5 = 0	.5 <ht 1="" r<="" th=""><th>n 6 = 0.2<ht< th=""><th>0.5 m 7</th><th>= HT<0.2 m</th></ht<></th></ht>	n 6 = 0.2 <ht< th=""><th>0.5 m 7</th><th>= HT<0.2 m</th></ht<>	0.5 m 7	= HT<0.2 m		
CVR CODES	0= NONE			10% 2= 10 < C\				4= CVR > 609				
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DEADFALL / LO			+	< 10		10 - 24		25 - 50		> 50		
ABUNDANCE CODE		= NONE	R=	RARE O	= OCCASIO	NAL	A = AB	UNDANT				
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COMM. AGE:		PIONEE	<u>`</u>	TOONG	1 Jim	D-FIGE	1			GROWTH		
SOIL ANALYS	IS:								1-			
TEXTURE:				PTH TO MO		SLEY	g =		G=			
MOISTURE:				PTH OF OR						(cm		
HOMOGENEOUS	/ VAF	RIABLE	DE	PTH TO BEI	DROCK:					(cm		
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COMPLEX

Notes:

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CLASSIFICATION	UTMZ:	U	TME]	UTMN:			
POLYGON DE	SCRI	PTION	0.0					
SYSTEM	SUB	STRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY		
G TERRESTRIAL	G org	ANIC	G LACUSTRINE G RIVERINE	G NATURAL	G PLANKTON G SUBMERGED	G LAKE G POND		
G WETLAND	-	RAL SOIL	G BOTTOMLAND G TERRACE	G CULTURAL	G FLOATING-LVD.	G DIVER		
G AQUATIC	G ACIDIC BEDRIK. G BASIC BEDRIK. G BASIC BEDRIK. G CLIFF				G FORB G LICHEN G BRYOPHYTE G DECIDUOUS	G STREAM G MARSH G SWAMP G FEN G BOG		
SITE	G CAR	B. BEDRK.	G TALUS G CREVICE / CAVE G ALVAR	COVER	G CONIFEROUS G MIXED	G BARREN G MEADOW G PRAIRIE		
G OPEN WATER	1		G ROCKLAND G BEACH / BAR	G OPEN		G THICKET G SAVANNAH		
G SHALLOW WATER G SURFICIAL DEP.			G SAND DUNE G BLUFF	G SHRUB		G WOODLAND G FOREST		
G BEDROCK			GBLUFF	G TREED		G PLANTATION		
STAND DESC	RIPTIC	N:	SPECIES IN C	ORDER OF DECRE	ASING DOMINANCE	(up to 4 sp)		
LAYER	HT	CVR	(>> MUCH GREAT	TER THAN; > GRE	ATER THAN; = ABO	UT EQUAL TO)		
1 CANOPY					p			
2 SUB-CANOPY								
3 UNDERSTOREY				A110				
4 GRD. LAYER								
HT CODES: CVR CODES	1 = >25 r 0= NONE			m 4 = 1 <ht 2="" 5="<br" m="">VR 25% 3=25 < C\</ht>	0.5 <ht 1="" 6="0.2<HT<br" m="">/R 60% 4= CVR > 609</ht>			
STAND COMPOSITI	ON:					BA:		
SIZE CLASS ANA	LYSIS		< 10	10 - 24	25 - 50	> 50		
STANDING SNAC	SS:		< 10	10 - 24	25 - 50	> 50		
DEADFALL / LOC	SS:		< 10	10 - 24	25 - 50	> 50		
ABUNDANCE CODE	S: N	= NONE	R = RARE O	= OCCASIONAL	A = ABUNDANT			
COMM. AGE:		PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH		
SOIL ANALYS	IS:					lo		
TEXTURE:				TTLES / GLEY	g =	G=		
MOISTURE:		HAD! C	DEPTH OF OR			(cm)		
HOMOGENEOUS			DEPTH TO BE	DRUCK:		(cm)		
COMMUNITY		1	ION:		F	C CODE		
COMMUNITY	SERIES	:						
E	COSITE							
VEGETATIO	N TYPE							
INCLUSE	ON							

Notes:

ELC	SITE:
ELC	POLYGON:
STAND	DATE:
CHARACTERISTICS	SURVEYOR(S):

TREE	TALLY	RY	SPECIES:	
11/2			OI LUILO.	

112

PRISM FACTO	R						
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
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		7-2					
				38	5.0e3		
Mary Con-				11			
TOTAL							100
BASAL AREA (BA)							
DEAD							

COMMUNITY PRO	FILE DIAGRAM		
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ELC	SITE:					ELC	S	ITE:	ncuder				
ELC	POLYGON:				9.00		Р	OLYGON:	050	55-C	1.450	~G	
SOILS ONTARIO	DATE:					PLANT SPECIES	D	ATE:	May	6.2015	13		
	SURVEYOR(S):				LIST	S	URVEYOR	R(S):	7 H. DW.			
	Slope			UTM						NDERSTOREY 4 = GR	OUND (GRD.) L	AYER	-
A PP Dr Position Asp	ect % Typ	e Class	Z EASTIN	IG NORTHI		ABUNDANCE CODES: R	= RARE O	= OCCASIO	NAL A = AB	UNDANT D = DOMINAN	iT		
7					O make	W	L	AYER				LAYER	
				_	Proak- OAKS 7 Elvy FHickory	SPECIES CODE	1 2	3 4	COL.	SPECIES CO	DDE /	2 3	COL.
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					Trivolog	1	1	+			11		
SOIL 1	2		3	4	Swarp	LAMITE DOK	18	-	+	1000 116	11		
TURE X HORIZON	CV				- 0	Wilm ohis,	0			TOUT	1. Ne	(a)	
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TEXTURE					Prevt coll.	Fagus ara	10	A		Dantania	311	d'an	
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RSE FRAGMENTS					Coll	Cato dara	III			Cardoun	m dotto	ASI	
TEXTURE						Quer robin				Ethyrium	aliv	Com	
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RSE FRAGMENTS					1.00	A	-	-	-	Arisaer	311	207	3
TEXTURE						ALLY SOS			-	Carex	581		X
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RSE FRAGMENTS					Becet Ha	y leaves.			75-	11	FOR		-
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ACE ROCKINESS	1		PART NOT		FLBWO NOFL	Dage .		THE	1	000		-	
TO / OF					- NOT	100 SES SE	CAN	9	X	Beecho	Tap.		
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GLEY 30cm			111	7		fivous out				Philopin			
			-13	-/	AMTOSEO	14.12	101	111	1	72	THE COLUMN	+	
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DESCRIPTION &					finish					
CLASSIFICATION	UTMZ:	U	TME:	ME: UTMN:						
POLYGON DI	ESCRI	MOIT								
SYSTEM	SUBS	TRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY				
G TERRESTRIAL G WETLAND G AQUATIC	G PARE	RAL SOIL	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G CLIFF	G natural G cultural	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDIOUS	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOO G BARREN				
SITE	G CAR	B. BEDRK.	G TALUS G CREVICE / CAVE G ALVAR	COVER	G CONIFEROUS G MIXED	G MEADOW G PRAIRIE				
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G OPEN G SHRUB G TREED		G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION				
STAND DESC	DIDTIC	N.								
LAYER	нт	CVR	SPECIES IN O	RDER OF DECREA	ASING DOMINANCE (ATER THAN; = ABO	up to 4 sp) UT EQUAL TO)				
1 CANOPY										
2 SUB-CANOPY										
3 UNDERSTORE	1									
4 GRD. LAYER										
CVR CODES STAND COMPOSIT	0= NONE		CVR : 10% 2= 10 < C\	/R 25% 3= 25 < CV		BA:				
SIZE CLASS AN	ALYSIS		< 10							
STANDING SNA			10	10 - 24	25 - 50	> 50				
	GS:		< 10	10 - 24	25 - 50 25 - 50	> 50				
DEADFALL / LO	GS:	= NONE	< 10 < 10	10 - 24	25 - 50	> 50				
DEADFALL / LO ABUNDANCE COD	GS:		< 10 < 10 R = RARE O =	10 - 24 10 - 24	25 - 50 25 - 50	> 50				
DEADFALL / LO ABUNDANCE COD COMM. AGE :	GS: ES: N	= NONE	< 10 < 10 < 10 R = RARE O :	10 - 24 10 - 24 OCCASIONAL MID-AGE	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH				
DEADFALL / LO ABUNDANCE COD COMM. AGE : SOIL ANALYS TEXTURE:	GS: ES: N	= NONE	< 10 < 10 < 10 R = RARE 0 : YOUNG	10 - 24 10 - 24 COCCASIONAL MID-AGE	25 - 50 25 - 50 A = ABUNDANT	> 50 > 50 OLD GROWTH				
DEADFALL / LO ABUNDANCE COD COMM. AGE : SOIL ANALYS TEXTURE: MOISTURE:	GS: ES: N	= NONE PIONEER	<10 < 10 R = RARE O : I YOUNG DEPTH TO MO DEPTH OF ORG	10 - 24 10 - 24 = OCCASIONAL MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH				
DEADFALL / LO ABUNDANCE COD COMM. AGE: SOIL_ANALYS TEXTURE: MOISTURE: HOMOGENEOU	GS: ES: N SIS:	= NONE PIONEER	<10 <10 R = RARE 0: YOUNG DEPTH TO MO DEPTH OF ORG DEPTH TO BEG	10 - 24 10 - 24 = OCCASIONAL MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH G= (cm (cm				
DEADFALL / LO ABUNDANCE COD COMM. AGE : SOIL ANALYS TEXTURE: MOISTURE: HOMOGENEOU	GS: ES: N SIS: S / VAR	= NONE PIONEEF	<10 <10 R = RARE 0: YOUNG DEPTH TO MO DEPTH OF ORG DEPTH TO BEG	10 - 24 10 - 24 = OCCASIONAL MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH				
DEADFALL / LO ABUNDANCE COD COMM. AGE: SOIL ANALYS TEXTURE: MOISTURE: HOMOGENEOU	GS: ES: N SIS: CLASS	= NONE PIONEEF RIABLE SIFICAT	<10 <10 R = RARE 0: YOUNG DEPTH TO MO DEPTH OF ORG DEPTH TO BEG	10 - 24 10 - 24 = OCCASIONAL MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH G= (cm (cm				
DEADFALL / LO ABUNDANCE COD COMM. AGE : SOIL ANALYS TEXTURE: MOISTURE: HOMOGENEOU COMMUNITY COMMUNITY	GS: ES: N SIS: CLASS	= NONE PIONEEF RIABLE SIFICAT S:	<10 <10 R = RARE 0: YOUNG DEPTH TO MO DEPTH OF ORG DEPTH TO BEG	10 - 24 10 - 24 = OCCASIONAL MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH G= (cm (cm				
DEADFALL / LO ABUNDANCE COD COMM. AGE : SOIL ANALYS TEXTURE: MOISTURE: HOMOGENEOU COMMUNITY COMMUNITY	GS: ES: N SIS: CLASS CLASS CLASS CLASS CECOSITE	= NONE PIONEEF RIABLE SIFICAT S:	<10 <10 R = RARE 0: YOUNG DEPTH TO MO DEPTH OF ORG DEPTH TO BEG	10 - 24 10 - 24 = OCCASIONAL MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH G= (cm (cm				
DEADFALL / LO ABUNDANCE COD COMM. AGE: SOIL ANALYS TEXTURE: MOISTURE: HOMOGENEOU COMMUNITY COMMUNITY	GS: ES: N SIS: CLASS / CLASS / CLASS SERIES ECOSITE	= NONE PIONEEF RIABLE SIFICAT S:	<10 <10 R = RARE 0: YOUNG DEPTH TO MO DEPTH OF ORG DEPTH TO BEG	10 - 24 10 - 24 = OCCASIONAL MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 OLD GROWTH G= (cm (cm				

Notes:

FLC	SITE:	
ELC	POLYGON:	
STAND	DATE:	
CHARACTERISTICS	SURVEYOR(S):	

TREE	TAI	IV	RY	SPF	CIES:

PRISM FACTO SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL.
					-		
						-	
						l d	
TOTAL							100
BASAL AREA (BA)							
DEAD							

CTA	NID	CON	IDO	CITIO	ON.

COMMUNITY PROFI	LE DIAGRAM		

FLO	SITE:		ELC	SITE: Malaceria	y nater
ELC	POLYGON:			POLYGON: 0506	807
SOILS ONTARIO	DATE:		PLANT SPECIES	DATE: Nacy 6	
SOILS ON TARIO	SURVEYOR(S):		LIST	SURVEYOR(S):	F. KW
Miss	Slope	UTM	LAYERS: 1 = CA	NOPY 2 = SUB-CANOPY 3 = UND	ERSTOREY 4 = GROUND (GRD.) LAYE
P/A PP Dr Position Aspe	ct % Type Class Z EASTING	NORTHING	ABUNDANCE CODES: R = RA	RE 0 = OCCASIONAL A = ABUNI	DANT D = DOMINANT
1 2			SPECIES CODE	LAYER COL.	SPECIES CODE
3			1.71	1 2 3 4	1 2
4			Herr Acct 1	ell	Karole losopstale
5					Godium Sid
SOIL 1	2 3 4	5			RAGINACULU A
TEXTURE x HORIZON					Floating agen
					Iria stratical
Super	Service of Things IV				Cover sop
AL. 1-12			61		Alisma plant-12
SCHOOL SECTION	TO THE SECOND				Lenga
Alberta Company			4		Carex strika
Patrick Con		E F 1 SEE 7			Scirous so
			8		
A TEXTURE	THE THE PERSON OF THE	ELT TO LET		++++	Miles Incarn
COURSE FRAGMENTS			A Vince Charles		
B TEXTURE		- T		-	
COURSE FRAGMENTS		Δ.		+++++-	
C TEXTURE		Blue	101 454 (1)		
COURSE FRAGMENTS		Jacoba	150		
EFFECTIVE TEXTURE		heron Herby			
SURFACE STONINESS		Par			
SURFACE ROCKINESS		* House			
DEPTH TO / OF					
MOTTLES	T. Same	SPARS			
GLEY		avolide			
BEDROCK	1	SARS avolible to east RWR			
WATER TABLE	1000				
CARBONATES	Mary Artist	EWB!			
DEPTH OF ORGANICS	1 Date 1 3/4				
PORE SIZE DISC #1				7	
PORE SIZE DISC #2		AV.	C MC W	OWNER OF THE PARTY	Land of the State
MOISTURE REGIME	E SERVICE LEGIS	2	34100 -1.429		
SOIL SURVEY MAP			Corn seri		
F 52245-4			Corn race		
LEGEND CLASS				1000	- Р
			01 888		

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ELC	SITE			POLY	POLYGON:							
COMMUNITY DESCRIPTION &		YOR(S):		DATE:	DATE: TIME: start finish							
CLASSIFICATION	UTMZ.	L	ITME:		UTMN:							
POLYGON D	ESCRI	PTION										
SYSTEM	SUB	STRATE	TOPOGRAPH FEATURE	IC HISTORY	PLA	NT FORM	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP					
G TERRESTRIAL G WETLAND G AQUATIC	G PAR	ERAL SOIL ENT MIN.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOP	_	G SU G FLO G GR G FO							
	G BASI	OIC BEDRK.	G TABLELAND G ROLL, UPLAN G CLIFF G TALUS	o o	G DE	YOPHYTE CIDUOUS NIFEROUS	G FEN G BOG G BARREN					
SITE	G CAR	B, BEDRK.	G CREVICE / CA G ALVAR G ROCKLAND	COVER	G MI	ŒD	G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION					
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK	R		G BEACH / BAR G SAND DUNE G BLUFF	G OPEN G SHRUB G TREED								
STAND DES	CRIPTIC	ON:										
LAYER	нт	CVR	SPECIES IN (>> MUCH GRE	ORDER OF DECR ATER THAN; > GR	EASING D	OMINANCE (HAN; = ABO	up to 4 sp) UT EQUAL TO)					
1 CANOPY												
2 SUB-CANOP	Y											
3 UNDERSTORE	Y											
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Notes:

FLC	SITE:	
ELC	POLYGON:	
STAND	DATE:	
CHARACTERISTICS	SURVEYOR(S):	
TALLY BY SPECIES:		100

TREE	741	IVO	COL	
IREE	IAL	LIDI	STE	VIE:

PRISM FACTO SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL
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							1/2
and the same							
Argr.						1-11	
TOTAL				-			100
BASAL AREA (BA)							14.55
DEAD							

STAND COMPOSITION:

1200 14576	

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	ELC	SITE						POLY	GON:			
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1	AQUATIC	G PARENT MIN. G ACIDIC BEDRIK. G BASIC BEDRIK. G CARB REDRIK		G TE	G BOTTOMLAND G TERRACE G VALLEY SLOPE TABLELAND G ROLL, UPLAND G CLIFF		OG G		AMINOID RB :HEN YOPHYTE CIDUOUS	G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN		
	SITE	G CAR	B. BEDRK.	G cr	LUS REVICE / CAVE .VAR	C	OVER	G MI	NIFEROUS XED	G MEA G PRA	WOOD	
G	OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK			G R	EACH / BAR NDD DUNE	G OPE	RUB			G THIC G SAV G WOO	CKET YANNAH ODLAND REST NTATION	
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н	CODES:	1 = >25 r			3 = 2 <ht 10="" m<="" td=""><td></td><td></td><td></td><td></td><td></td><td>= HT<0.2 m</td></ht>						= HT<0.2 m	
	/R CODES		= 1= 0% <	CVR 1	0% 2= 10 < C\	/R 25%	3= 25 < CV	R = 60%	4= CVR > 609	4		
ST	AND COMPOSITI	ION:								BA:		
SI	ZE CLASS ANA	ALYSIS		A	< 10	Pr	10 - 24	12	25 - 50	N	> 50	
s	TANDING SNAC	GS:		10	< 10	TO	10 - 24	TAI	25 - 50	N	> 50	
_	EADFALL / LOC				< 10		10 - 24		25 - 50		> 50	
AE	BUNDANCE CODE	ES: N	= NONE	R = 1	RARE O	OCCA	SIONAL	A = A	BUNDANT			
C	OMM. AGE :		PIONEER	₹	YOUNG	ļΧ	MID-AGE		MATURE	Ц	OLD GROWTH	
	OIL ANALYS	IS:		l	70.10		LOLEY	la =		G=		
-	EXTURE:				TH TO MO			g =		0-	(cm	
_	OISTURE:	2 / VAE	PIARI F		TH TO BE			-			(cm	
_	OMMUNITY								EL	ссо		
ř	COMMUNITY			1011.		-						
H	COMMUNITY	SERIES	S:				FI					
F	E	COSITI						- 1				
	VEGETATIO	N TYPE	E:									
H	INCLUS	ON										

COMPLEX

FIC	SITE:
ELC	POLYGON:
STAND	DATE:
CHARACTERISTICS	SURVEYOR(S):

TREE	TAL	IV	RV	SPE	CIES

Notes:

PRISM FACTO SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
							<u> </u>
TOTAL							100
BASAL AREA (BA)							
DEAD							

MMUNITY PROFILE DIAGRA	M	
April 10 pe		

El	_C	SITE: POLYGON:				- 43	ELC PLANT	POLYGON: 05-0	dring naters		
SOILS O	NTARIO	DATE:					SPECIES	DATE: Mus	6/15		
		SURVEYOR(S):					LIST		11/0W		
DIA DD De	Position Aspect	Slope			TM			ANOPY 2 = SUB-CANOPY 3 = ARE O = OCCASIONAL A = A	UNDERSTOREY 4 = GROUND (GR	D.) LAYER	t
1	Position Aspect	% Type	Class Z	EASTING	NORTHING	10.0		LAYER		L	AYER
2						3	SPECIES CODE	1 2 3 4 COL.	SPECIES CODE	1 2	3
3 4	1000 000			7.0			Hickshap &	30	ENY AMER		
5						estalap	QUEELIPS .	0	CARSO		
SOIL	1	2	3	4	5	4.	CARCARO	0	FRAUIRG	el L	
TEXTURE x HORIZON				-			DICHAGE !	9	TRIGRAN		
A							HUMAMER	00	GERMAN		
Steve	6301	P	3 - 30	70		0.	The state of the s	0	POT-SC		
B	Sich					1.0			POOPELT		
h						1.	CAGGRAN .	DA	ONDSONS		
30	4						OSTUIRO	0	Churcedsedo		
W	1-1							A	RAWA ROD		
A TEXTURE	Loan							2	EQUARUE		
COURSE FRAGMENTS	NA		100			L		2			
B TEXTURE	SICL					Local)			_
COURSE FRAGMENTS	MA						FREAMER !	2			1
C TEXTURE	1					1	A THE CASE OF				1
COURSE FRAGMENTS	fel - n i					1 1	990				-
EFFECTIVE TEXTURE				120							-
SURFACE STONINESS											-
SURFACE ROCKINESS	LLEE		Part Line				-			-	-
DEPTH TO / OF										-	+
MOTTLES	20cm				The second			+			-
GLEY	NA.									-	+
BEDROCK	4.14						110-1-0-9				-
WATER TABLE	NA765	12-1			1000		PRUVIRO	A	-	-	+
CARBONATES							QUEPARE				+
DEPTH OF ORGANICS	LE WAY			15			LIN REZO	0		-	-
PORE SIZE DISC #1			1				() a a B	18	100		-
PORE SIZE DISC #2							QUBIDAE	0			-
MOISTURE REGIME		in-land the					BARTHUN	101			+
SOIL SURVEY MAP							LON TATIA		_	-	+
LEGEND CLASS	11		1				POINT INTINA				

Page of

Shapla

R

ELC	SITE				POLYGON:		
COMMUNITY	SURVE	YOR(S)		DATE	TIME: star		
DESCRIPTION &							
CLASSIFICATION	UTMZ.	U	TME:		TMN.		
OLYGON D	ESCRI	PTION					
SYSTEM	SUBS	STRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY	
TERRESTRIAL G WETLAND G AQUATIC	G PARE	RAL SOIL	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF	G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE DECIDLOUS	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN	
SITE	G car	B, BEDRK.	G TALUS G CREVICE / CAVE G ALVAR	COVER	G CONIFEROUS G MIXED	G MEADOW G PRAIRIE	
OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK			G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G OPEN G SHRUB G TREED		G THICKET G SAVANNAH G WOODLAND FOREST G PLANTATION	
STAND DESC	PIDTIC	N.		1-10			
LAYER	нт	CVR	SPECIES IN O	RDER OF DECREA	ASING DOMINANCE ATER THAN; = ABC	(up to 4 sp) OUT EQUAL TO)	
1 CANOPY							
SUB-CANOPY	/						
	_	_					
3 UNDERSTORE	Y						
4 GRD. LAYER	1=>25		T-25 m 3 = 2 <ht-10 m<="" th=""><th></th><th></th><th></th></ht-10>				
GRD. LAYER HT CODES: CVR CODES	1 = >25 r 0= NONE		T-25 m 3 = 2 <ht-10 m<br="">CVR 10% 2= 10 < CV</ht-10>		0,5 <ht 1="" 6="0,2<HT<br" m="">R 60% 4= CVR > 60°</ht>		
GRD. LAYER IT CODES: EVR CODES STAND COMPOSI	1 = >25 r 0= NONE TION:	= 1= 0% <				<u>* </u>	
4 GRD. LAYER HT CODES: CVR CODES STAND COMPOSI	1 = >25 r 0= NONE TION:	= 1= 0% <	CVR 10% 2=10 < CV	/R 25% 3= 25 < CV	R 60% 4= CVR > 60°	BA:	
GRD. LAYER IT CODES: EVEN CODES ITAND COMPOSI SIZE CLASS AN	1 = >25 r 0= NONE TION: NALYSIS	= 1= 0% <	CVR 10% 2= 10 < CV	7R 25% 3= 25 < CV	R 60% 4= CVR > 60°	BA: > 50	
GRD. LAYER IT CODES: EVER CODES ITAND COMPOSI SIZE CLASS AN STANDING SNA DEADFALL / LC	1 = >25 r 0= NONE THON: NALYSIS AGS: DGS:	= 1= 0% <	< 10 < 10 < 10 < 10 < 10	7R 25% 3= 25 < CV	25 - 50 25 - 50	BA: > 50 > 50	
	1 = >25 r 0= NONE THON: NALYSIS AGS: DGS:	= 1= 0% < :	< 10 < 10 < 10 < 10 R = RARE O =	7R 25% 3=25 < CV	25 - 50 25 - 50 25 - 50	BA: > 50 > 50 > 50 > 50	
GRD. LAYER AT CODES: EVEN CODES ETAND COMPOSI SIZE CLASS AN STANDING SN/ DEADFALL / LC ABUNDANCE COMM. AGE:	1=>25 r 0= NONE THON: NALYSIS AGS: DGS:	: 1= 0% < 1	< 10 < 10 < 10 < 10 R = RARE O =	10 - 24 10 - 24 10 - 24 10 - 24 - OCCASIONAL	25 - 50 25 - 50 25 - 50 25 - 50 A = ABUNDANT	BA: > 50 > 50 > 50 > 50	
GRD. LAYER THE CODES: CVR CODES STAND COMPOSI SIZE CLASS AN STANDING SNA DEADFALL / LC ABUNDANCE CO COMM. AGE: SOIL ANALY	1=>25 r 0= NONE THON: NALYSIS AGS: DGS:	: 1= 0% < 1	< 10 < 10 < 10 < 10 R = RARE O =	10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE	25 - 50 25 - 50 25 - 50 25 - 50 A = ABUNDANT	BA: > 50 > 50 > 50 > 50	
GRD. LAYER THE CODES: CVR CODES STAND COMPOSI SIZE CLASS AN STANDING SNA DEADFALL / LC ABUNDANCE CO COMM. AGE: SOIL ANALY TEXTURE:	1=>25 r 0= NONE THON: NALYSIS AGS: DGS:	: 1= 0% < 1	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 TTLES / GLEY	25 - 50 25 - 50 25 - 50 25 - 50 A = ABUNDANT MATURE	BA: > 50 > 50 > 50 > 50	
GRD. LAYER THE CODES: EVEN CODES TO THE COMPOSITION COMPOSITION COMPOSITION THE COMPOSITION COMPOSITIO	1=>25 r 0= NONE THON: MALYSIS AGS: DGS: DES: N	: 1= 0% <	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 25 - 50 A = ABUNDANT MATURE	BA:	
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100 TOTAL BASAL AREA (BA) DEAD STAND COMPOSITION: **COMMUNITY PROFILE DIAGRAM** Notes: 5005 - soil core

SITE:

TALLY 1

POLYGON: DATE:

TALLY 2

TALLY 3

SURVEYOR(S):

REL.

AVG

TOTAL

TALLY 5

TALLY 4

ELC

STAND CHARACTERISTICS

TREE TALLY BY SPECIES:
PRISM FACTOR

SPECIES

				SITE:								
	ELC	,		POLYG	ON:			- 1				
001				DATE:			W.					
50	ILS ONT	ARIO			YOR(S):							
130			1	Slope		-			UTM		37	377
P/A PP	Dr Pos	ition	Aspect	%	Туре	Class	Z	EASTING		NORTH	ING	1
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	1					1 8	- 12			-0		
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	4.5		-			-				Acres Land		
TE	CTURE									100		1
Wild by						1		1 1 2		- Jo		
OURSE FRAGA	MENTS			-				-		-		
Œ	CTURE	21								771		1
OURSE FRAGI	ENTS -	_										-
	CTURE	_		-				-				4
	_				_							1
OURSE FRAGI	ENTS			L.								
EFFECTIVE TEX	TURE											1
URFACE STON	INESS											1
IDEACE DOCK			-								-	-
JRFACE ROCK	IMESS	_	1							5 19 19]
TH TO / OF						1		_				7
MOT	TILES	100				100					1]
	GLEY				3	450		100		1 3		
BEDI	ROCK			10	1	1		4		P)		1
WATER T	ABLE -		47-01,	- 5	1000					E 5 12		1
	_			176				-				1
CARBON	-			- 1-1				6.2		-		
EPTH OF ORGA	ANICS		==17=	-1830				DE L				
PORE SIZE DI	SC #1		111.75	36.0				4/33				1
PORE SIZE DI	SC #2											ملم
MOISTURE RE		777	Dec PE									- ILL
moto i une RE	- SIMIC						-] [MTUNE
SOIL SURVEY	MAP						-	1	-			cattine
	13	-	- 1			1	-	-				-
LEGEND C	LASS					-		-				

FIC	SITE: Hunderin waters
ELC	POLYGON: Didn 05-06-10
PLANT SPECIES	DATE: 05/06
LIST	SURVEYOR(S): DW + ZH

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE		LA	YER		COL.	SPECIES CODE		LA	YER		COL
	1	2	3	4			1	2	3	4	
FREPERM		0				FRAVIRG				A	
HLM PMER						TRIESP SOLSP SOLORIS FRORESP LYTEALI		18		A	
POR DELT						501 50					
GAL FRAG		100				SMARIS					
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IOX FHFA		-	_						_		
JUNVIRG	-		44								
PRUVIUI Sallyest			100				Щ	505	4		
Saldness	1	1			1.11	1 - 1 - 1	U	ul.		100	
CORSERI											
CORPACE											
ROS-8P	VIII.		77								-

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ELC	SITE.					POLYC	SON:		
COMMUNITY	SURVE	YOR(S):			DATE	TIN	AE. start finish		
DESCRIPTION & CLASSIFICATION	UTMZ.	1	JTME			JTMN:			
POLYGON DE	SCRIE	TION							
SYSTEM		TRATE		POGRAPHIC FEATURE	HISTORY	PLA	NT FORM	COMM	UNITY
G TERRESTRIAL G WETLAND G AQUATIC	G PARE	RAL SOIL	GG B	ACUSTRINE IVERINE OTTOMLAND ERRACE ALLEY SLOPE ABLELAND	G NATURAL G CULTURAL	G SUB	NKTON MERGED ATING-LVD. MINOID IB IEN	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP	
	G BASH	BEDRIK.	GR	OLL. UPLAND LIFF ALUS		G DEC	OPHYTE IDUOUS IFEROUS	G FEN G BOG G BARRE	N
SITE	G CAR	a, aconn.	GA	REVICE / CAVE	COVER	G MIX	ED	G MEADO	E
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G s	OCKLAND BEACH / BAR AND DUNE LUFF	G OPEN G SHRUB G TREED			G THICKE G SAVAN G WOODI G FORES G PLANT	NAH LAND
STAND DESCI	HT	CVR	(>> 8	SPECIES IN O	RDER OF DECREA	ASING DO	OMINANCE (up to 4 sp UT EQUAL) _ TO)
1 CANOPY		-							
2 SUB-CANOPY									
3 UNDERSTOREY									
4 GRD. LAYER									
HT CODES: CVR CODES STAND COMPOSITI	0= NONE			3 = 2 <h1 10="" <="" m<="" th=""><th>4 = 1<ht 2="" 25%="" 3="25" 5="1/R" <="" c\<="" m="" th=""><th></th><th>4= CVR > 609</th><th></th><th></th></ht></th></h1>	4 = 1 <ht 2="" 25%="" 3="25" 5="1/R" <="" c\<="" m="" th=""><th></th><th>4= CVR > 609</th><th></th><th></th></ht>		4= CVR > 609		
SIZE CLASS ANA	LYSIS			< 10	10 - 24		25 - 50		> 50
STANDING SNAC	3S:			< 10	10 - 24		25 - 50		> 50
DEADFALL / LOC				< 10	10 - 24		25 - 50		> 50
ABUNDANCE CODE		= NONE	R=	RARE O	= OCCASIONAL	A = AE	BUNDANT		
COMM. AGE :		PIONEE	R	YOUNG	MID-AGE		MATURE		D ROWTH
SOIL ANALYS	IS:								
TEXTURE:			DE	PTH TO MO	TTLES / GLEY	g =		G=	
MOISTURE:				PTH OF OR					(cm
HOMOGENEOUS				PTH TO BE	OROCK:		7		(cm
	CLASS	SIFICA	TION:			1	EL	C CODI	
COMMUNITY	<u></u>								
COMMUNITY	_): 							
	CLASS	_							
COMMUNITY	CLASS	S:							
COMMUNITY	CLASS SERIES COSITE	S:							
COMMUNITY	CLASS SERIES COSITE IN TYPE	S:							

COMPLEX

Notes:

STAND CHARACTERISTICS DATE: SURVEYOR(S): TREE TALLY BY SPECIES: PRISM FACTOR TALLY 5 TOTAL TALLY 4 TALLY 3 SPECIES TALLY 1 TALLY 2 TOTAL BASAL AREA (BA) DEAD STAND COMPOSITION: COMMUNITY PROFILE DIAGRAM Notes:

SITE:

POLYGON:

REL. AVG

100

ELC

	C	SITE:											
EL		POLYGON:											
SOILS O	NTARIO		DATE:										
				YOR(S):									
nu las la	- ···		Slope		UTM								
P/A PP Dr	Position	Aspect	%	Туре	Class	Z	EASTING	NORTHING					
		-	-			\vdash							
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							-						
SOIL				_				<u> </u>					
TEXTURE x HORIZON	1	- 1		2		3	4	5					
ECTORE & HORIZON	Tet Sin				100		-						
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	-	-			100		- 1 - 13	-					
	100	110					3.00						
	1				- 10								
TEXTURE		-	S- 10.		1								
		-	- 1					768					
COURSE FRAGMENTS TEXTURE													
TEXTURE	134							1000					
COURSE FRAGMENTS													
TEXTURE	1157		-										
COURSE FRAGMENTS						-	1 80 1 61						
				1. 2/3		_	SI ED I	736-1					
EFFECTIVE TEXTURE	X					2-1	200						
SURFACE STONINESS	482	12.	N.		- 15	10	5 3 3 5						
SURFACE ROCKINESS		1					======						
EPTH TO / OF													
MOTTLES													
GLEY								300					
BEDROCK													
WATER TABLE													
					1								
CARBONATES							1						
DEPTH OF ORGANICS	- 40				17.		12: 1						
PORE SIZE DISC #1	43		187				7 - 7						
PORE SIZE DISC #2													
MOISTURE REGIME													

ONField Rd. Walter

Mundein waters: 05-06-611 05/04/15 RISI: DIN/2H PLANT SPECIES LIST POLYGON: DATE: SURVEYOR(S):

1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

	SPECIES CODE		LA	YER		COL.	SPECIES CODE		LA	YER		COL
	SPECIES CODE	1	2	3	4	COL.	SPECIES CODE	1 2		3	4	CUL
1	PRXPERIN			D	6		THADIDI			Г		
paluti	PRXPERIN	A	0		P		POTES					
62	NEWPRE	A	9				ARITRIP	Т				
	ULMRUBE?	1	0				TRIGRAN					
	QUEMPGE	R					FRAURE					
	PRUAVIL			R			ERIAMER					
	PRUGERO		F	1			POOLELT					
	ACKSASA						CIRCUTE		M			
							STRROJE?		W			
			200				CLAYVIER					Ä
							AUPEN					
							ABRGRYP					
	101						50158					
			-			17	ATHEBLI		14	377		
							7411/20					
										1		
			11									
	VIBRENT								-			
	TOXPADI			A								
	SPIALBA			0				T				
	LINGERO			Ŏ						10		
	TRA-SP			A							-	
1	MACRUMI	1		8					75			
	BUB LOAK	1		A								
1	CORPACE		-	0		EP-	4			-		
1	COSA-SP			0	-					-	-	
1	FIR.SP	-		B		-	-	-	-	-		
Hoom		-	V	-		=		\vdash	_		4	
L	- CRAPUNCICLUZ		A	A			1		-1		14	
	CONVITA		-	0								
	LKUUIN			4								
	KNACATH		-3	8		(GL)						

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ELC	SITE						POLY	GON:					
COMMUNITY	SURVE	YOR(S)			DATE:		Til	ME. start finish					
DESCRIPTION & CLASSIFICATION	UTMZ:		UTME			lu	TMN						
Total Committee	SURVEYOR(S) WINTY WITHON & FIFCATION STEM SUBSTRATE STRIAL G ORGANIC MINERAL SOIL G PARENT MIN. G ACIDIC BEDRIK G BASIC BEDRIK G BASIC BEDRIK G CARB. BEDRIK SITE WATER OW WATER OW WATER COAL DEP. DCK D DESCRIPTION: AYER HT CVR ANOPY 2 4 B-CANOPY 3 ES: 1=>25 m 2=10* COMPOSITION:	_											
00.000			_	OPOGRAPHIC	Н	STORY	PLA	NT FORM	COM	MUNITY			
STSTEM	308	SIKAII		FEATURE				/ LANT I ORGIN					
G TERRESTRIAL WETLAND T	MINE G PARI G ACID	ERAL SOIL ENT MIN. NC BEDRI	GOGGGGG	LACUSTRINE RIVERINE BOTTOMLAND TERRACE VALLEY SLOPE TABLELAND ROLL. UPLAND CLIFF	G CULTURAL G		G SUE G FLO G FOF G LICI G BRY	HEN YOPHYTE CIDUOUS	G LAKE G POND G RIVER G STREAM G MARSH S SWAMP G FEN G BOG				
SITE	G CAR	8. BEDRK	" IG	TALUS CREVICE / CAVE			G MIX	NIFEROUS	G BAR	WOO			
G OPEN WATER SHALLOW WATER SEURFICIAL DEP. S BEDROCK	SURFICIAL DEP.			ALVAR ROCKLAND BEACH / BAR SAND DUNE BLUFF	G OPEN G SHRUB				G PRAIRIE G THICKET G SAVANNAH G WOODLAND OF FOREST G PLANTATION				
TAND DECC	DIDTIC	NA.	-										
LAYER			(>:	SPECIES IN O	RDER O	F DECREA	SING D	OMINANCE (up to 4 UT EQL	sp) JAL TO)			
1 CANOPY	2	U	10	18 6/10	5	APEX	reci	5 > F	PKD	ENW			
2 SUB-CANOPY	3		(4		FR	x 50	RA	T-50					
3 UNDERSTOREY	4		4	200AC	EPR	270	OR	PACE					
4 GRD. LAYER	5-7						7 1 1	E .					
IT CODES:	1 = >25	m 2 = 10-	<ht 25<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>= HT<0,2 t</th></ht>							= HT<0,2 t			
CVR CODES		E 1= 0%	< CVR	10% 2= 10 < CV	R 25%	3= 25 < CV	R 60%	4= CVR > 605	To prove				
STAND COMPOSITI	ON:						12		BA:	-8			
SIZE CLASS ANA	LYSIS	:	17	< 10	A	10 - 24	0	25 - 50	R	> 50			
STANDING SNAC	SS:		T	< 10		10 - 24	10	25 - 50	IN	> 50			
DEADFALL / LOC				< 10	1	10 - 24	A	25 - 50		> 50			
ABUNDANCE CODE		= NON	R	=RARE O	OCCA	SIONAL	A = A	BUNDANT					
COMM. AGE :		PIONE	ER	YOUNG	IX.	MID-AGE		MATURE		OLD GROWTI			
SOIL ANALYS	IS:						I	_	Ic-				
TEXTURE:				EPTH TO MO			g =		G=	len			
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COMMUNITY	CLAS! CLAS! SERIE!	S: S:	(I)OI	ν;						DE			
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COMMUNITY COMMUNITY COMMUNITY	CLASS CLASS SERIES COSITI	S: S: E:	KI JOI	v:						DE			

COMPLEX

FLC	SITE:
ELC	POLYGON:
STAND	DATE:
CHARACTERISTICS	SURVEYOR(S):

TREE TALLY BY SPECIES:

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL
				_			
		(C					
TOTAL							100
BASAL AREA (BA)							
DEAD							

COMMUNITY PROFILE	DIAGRAM	
R 7119		

			SITE:						
	ELC		POLY	GON:					
SOIL	LS ONTARI	10	DATE:						
3011	LS UNTARI	0	SURV	EYOR(S):					
		-	Slope					UTM	
P/A PP	Dr Positio	n Aspect	%	Туре	Class	Z	EASTING		NORTHING
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	OIL	1		2		3	4		5
TEXTURE x HOP	RIZON	40.40			-				O PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TO PERSON NAMED IN C
	201		-		- 1-10			-	
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	and the same		- 15		100				
	7								
							E TOTAL		
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TEX	TURE								
COLUDAT TRACE			-	-					
COURSE FRAGM TEX	TURE								
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COURSE FRAGM	ENTS								
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COURSE FRAGM	ENTS		11.79	R.L.			E		In Ex
					-		3 -2		
EFFECTIVE TEX	TURE								
SURFACE STONI	NESS		-						
SURFACE ROCKI	NESS				1000				
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FOM	TLES								
	GLEY								
	ROCK								
WATER T	ABLE				1				
CARBON	ATES		- 12						
DEPTH OF ORGA	NICS	-	- 17				1440		
PORE SIZE DI	_								
	_							_	
PORE SIZE DI									
MOISTURE RE	GIME		-				7 7 2		
eon erma	MAD T	_							
SOIL SURVEY	11		Literal						
LEGEND C	LASS								

SITE:

ELC		SIT	E:	+1	under	6-012				_	
		PO	LYG	ON:	05-0	6-019					
PLANT SPECIES			TE:	C	05/04						
LIST		SU	RVE	YOR	5): 2H	10W					
LAYERS: 1=	CANO	PY :	2 = Sl	JB-CA	NOPY 3 = U	DERSTOREY 4 = GROUND (GR	D.) LA	YER			
ABUNDANCE CODES: R =	RARE	0=	occ	ASION	AL A = ABI	NDANT D = DOMINANT					
		LAY	/ER		- 1			LA	YER		
SPECIES CODE	-	2	-	4	COŁ.	SPECIES CODE	1	2	3	4	COL.
	1	2	3				1	-		-	
FOX DENN)	A		A	A		TOUVIRE					
YEX PENN ACEX FRE	0			1		FRAURG					
KIZKHUE	10	\vdash	-	-			+	-	-		
DUEKUP	R					SUL-SP	_	_			
						BEUM-S					
						TEIGRAN	Т				
	+	\vdash	-		-		+		-		
	-					avosens	-	_	_	_	
						TRIVERS					
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	+		-	-		THE PART	+	-	-	-	-1
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RIB-Snoot	-		-	-	-	+		Г			
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TOXPADI	-		1				-	_			
LINBENZ			10								
RHAENTH		0				3			1		- 4

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ELC	SITE:				POLY	GON:	
COMMUNITY DESCRIPTION &	SURVE	YOR(S):		DATE:	TI	ME start finish	
CLASSIFICATION	UTMZ:		UTME	L	JTMN:		
POLYGON DE	SCRII	PTION					
SYSTEM		STRATE	TOPOGRAPHIC	HISTORY	I PLA	NT FORM	COMMUNITY
010.2			FEATURE				
G TERRESTRIAL	G ORG		G LACUSTRINE G RIVERINE	G NATURAL	G PLA	NKTON BMERGED	G LAKE G POND
G WETLAND G AQUATIC	10000	RAL SOIL ENT MIN.	G BOTTOMLAND G TERRACE	G CULTURAL	G FLC	DATING-LVD.	G RIVER G STREAM
G AQUATIC	P505	EN I MIN. NC BEDRK	G VALLEY SLOPE	- 1	G FO	RB	G MARSH G SWAMP
	14,500	C BEDRK.	IC BOLL LIDEAND		G BRY	YOPHYTE	G FEN G BOG
SITE	G CAR	8. BEDRK.		COVER		NIFEROUS	G BARREN G MEADOW G PRAIRIE
G OPEN WATER			G ROCKLAND	G OPEN			G THICKET G SAVANNAH
G SHALLOW WATER G SURFICIAL DEP.			G BEACH / BAR G SAND DUNE	G SHRUB			G WOODLAND G FOREST
G BEDROCK			G BLUFF	G TREED			G PLANTATION
STAND DESCI	DIPTIO	IN-			of the		
LAYER	НТ	CVR		RDER OF DECREA			
1 CANOPY				Aut :			
2 SUB-CANOPY				Meret			
		_			-		
3 UNDERSTOREY			(0 1A+	100 MULA	7	PHMON	ATH
4 GRD. LAYER HT CODES:			HT-25 m 3 = 2 <ht-10 m<="" th=""><th></th><th>),5<ht 1<="" th=""><th>m 6 = 0.2<ht< th=""><th>0.5 m 7 = HT<0.2 n</th></ht<></th></ht></th></ht-10>),5 <ht 1<="" th=""><th>m 6 = 0.2<ht< th=""><th>0.5 m 7 = HT<0.2 n</th></ht<></th></ht>	m 6 = 0.2 <ht< th=""><th>0.5 m 7 = HT<0.2 n</th></ht<>	0.5 m 7 = HT<0.2 n
4 GRD. LAYER HT CODES: CVR CODES	0= NONE			4=1 <ht 2m="" 5="0</th"><th>),5<ht 1<="" th=""><th>12. 12.05.5</th><th>0.5 m 7 = HT<0.2 n</th></ht></th></ht>),5 <ht 1<="" th=""><th>12. 12.05.5</th><th>0.5 m 7 = HT<0.2 n</th></ht>	12. 12.05.5	0.5 m 7 = HT<0.2 n
4 GRD. LAYER HT CODES: CVR CODES STAND COMPOSITE	0= NONE	1= 0% <	HT-25 m 3 = 2 <ht-10 m<="" td=""><td>4=1<ht 2m="" 5="0</td"><td>),5<ht 1<="" td=""><td>m 6 = 0.2<ht< td=""><td>0.5 m 7 = HT<0.2 n</td></ht<></td></ht></td></ht></td></ht-10>	4=1 <ht 2m="" 5="0</td"><td>),5<ht 1<="" td=""><td>m 6 = 0.2<ht< td=""><td>0.5 m 7 = HT<0.2 n</td></ht<></td></ht></td></ht>),5 <ht 1<="" td=""><td>m 6 = 0.2<ht< td=""><td>0.5 m 7 = HT<0.2 n</td></ht<></td></ht>	m 6 = 0.2 <ht< td=""><td>0.5 m 7 = HT<0.2 n</td></ht<>	0.5 m 7 = HT<0.2 n
4 GRD. LAYER HT CODES: CVR CODES STAND COMPOSITE SIZE CLASS ANA	0= NONE ON: ALYSIS:	1= 0% <	HT 25 m 3 = 2 <ht 10="" n<br="">CVR 10% 2= 10 < C</ht>	1 4 = 1 <ht 2="" 5="0<br" m="">VR 25% 3= 25 < CV</ht>),5 <ht 1<="" td=""><td>m 6 = 0.2<ht 4= CVR > 60%</ht </td><td>0.5 m 7 = HT<0.2 n</td></ht>	m 6 = 0.2 <ht 4= CVR > 60%</ht 	0.5 m 7 = HT<0.2 n
4 GRD. LAYER HT CODES: CVR CODES STAND COMPOSITE SIZE CLASS ANA STANDING SNAG	0= NONE ON: ALYSIS:	1= 0% <	HT 25 m 3 = 2 < HT - 10 n CVR - 10% 2= 10 < C	10 - 24),5 <ht 1<="" td=""><td>m 6 = 0.2<ht 4= CVR > 60% 25 - 50</ht </td><td>0.5 m 7 = HT<0.2 m</td></ht>	m 6 = 0.2 <ht 4= CVR > 60% 25 - 50</ht 	0.5 m 7 = HT<0.2 m
4 GRD. LAYER HT CODES: CVR CODES STAND COMPOSITE SIZE CLASS ANA STANDING SNAC	0= NONE ON: ALYSIS: GS:	1= 0% <	HT 25 m 3 = 2 HT 10 n CVR 10% 2= 10 < C < 10 < 10 < 10 < 10 < 10 < 10 < 10	10 - 24	9.5 <ht 1<br="">R 60%</ht>	m 6 = 0.2 <ht 4= CVR > 60% 25 - 50 25 - 50</ht 	0.5 m 7 = HT<0.2 m BA: > 50
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SITE	G CAR	B. BEDRK	. G	TALUS CREVICE / CAVE	COVER	G CONIF G MIXED	EROUS	G ME G PR	ADOW
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4 GRD. LAYER						-			
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		•	4						
STANDING SNAC				< 10	10 - 24	_	25 - 50		> 50
DEADFALL / LOG ABUNDANCE CODE		= NONE	R	< 10 RARE 0	= OCCASIONAL	A = ABU	25 - 50 NDANT	- 8	> 50
COMM. AGE :		PIONEE	_	YOUNG	MID-AGE		ATURE		OLD
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HOMOGENEOUS	/ VAF	RIABLE	DE	PTH TO BE	OROCK:		110	- White	(cm)
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VEGETATIO		≣:					SW-	T	- all

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Should layer doning SITE: THUNDERING WATERS SITE: ELC **ELC** POLYGON: POLYGON: 05-15-17 PLANT DATE: DATE: May 15, 2015 **SPECIES SOILS ONTARIO** SURVEYOR(S): SURVEYOR(S): KR, ZH LIST 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER Slope MTU ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT P/A PP Dr Position Aspect % Class NORTHING Type Z **EASTING** LAYER LAYER SPECIES CODE SPECIES CODE COL. COL. 3 3 2 4 TARA OFF Ulm Ame 0 FRAX PENN MALU PUMI SOIL 1 2 3 4 5 TEXTURE x HORIZON 0 0 0 Greun Jr ARE ROJEA BRAS NIGRA scensti are TEXTURE COURSE FRAGMENTS TEXTURE COURSE FRAGMENTS TEXTURE COURSE FRAGMENTS **EFFECTIVE TEXTURE** SURFACE STONINESS SURFACE ROCKINESS DEPTH TO / OF MOTTLES ANG GLEY CRAC BEDROCK WATER TABLE GENSES CARBONATES DEPTH OF ORGANICS PORE SIZE DISC #1 PORE SIZE DISC #2 MOISTURE REGIME 0 SOIL SURVEY MAP LEGEND CLASS

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SURVEYOR(S):

COMMUNITY DESCRIPTION & CLASSIFICATION

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G terrestrial G wetland G aquatic	G PARI	EANIC ERAL SOIL ENT MIN. DIC BEDRK. C BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMIAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF	G natural G cultural	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG			
SITE	G CAR	B. BEDRK.	G TALUS G CREVICE / CAVE G ALVAR	COVER	G CONIFEROUS G MIXED	G BARREN G MEADOW G PRAIRIE			
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G OPEN G SHRUB G TREED		G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION			
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COMMUNITY DESCRIPTION &	SURVEYOR(S):		DATE	TIME star	
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POLYGON DE	SCRIPTION				
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G terrestrial G wetland G aquatic	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMILAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G CLIFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG
SITE	G CARB, BEDRK.	G TALUS G CREVICE / CAVE	COVER	G CONIFEROUS G MIXED	G BARREN G MEADOW G PRAIRIE
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK		G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G OPEN G SHRUB G TREED		G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
STAND DESCI	RIPTION:				
LAYER	HT CVR			ASING DOMINANCE ATER THAN; = ABO	
1 CANOPY					
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4 GRD. LAYER					
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CVR CODES STAND COMPOSITI	0= NONE 1= 0% < 0	CVR 10% 2= 10 < CV	/R 25% 3= 25 < C	VR 60% 4= CVR > 60°	BA:
SIZE CLASS ANA	ALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAC	GS:	< 10	10 - 24	25 - 50	> 50
DEADFALL / LOC	SS:	< 10	10 - 24	25 - 50	> 50
ABUNDANCE CODE	ES: N = NONE	R = RARE 0 =	OCCASIONAL	A = ABUNDANT	
COMM. AGE :	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
SOIL ANALYS	IS:	рертн то мо	TTI ES / GI EV	lg =	lg=
MOISTURE:		DEPTH OF ORG		9	(cm
HOMOGENEOUS	/ VARIABLE	DEPTH TO BED	John Street, S		(cm
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COMMUNITY					
COMMUNITY	SERIES:				
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Phray marsh in gray dog inclusion

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PORE SIZE D	RSC #2				Philips							
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SOIL SURVE	YMAP											1
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FIC	SITE: Thursday maters
	POLYGON: 05-08-016
PLANT SPECIES	DATE: May 08 2015
LIST	SHOWEVORES A SA SA KA

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE		LA	YER		COL.						LA'	YER		
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	LYGON DE	SCRI	PTION	11/2	Variable 1			
	SYSTEM		STRATE	TOPOGRAPHIC FEATURE	HISTORY	PL	ANT FORM	COMMUNIT
G١	ERRESTRIAL VETLAND AQUATIC	G PAR	ERAL SOIL ENT MIN. DIC BEDRK IC BEDRK	GROUL UPLAND	G NATURAL G CULTURAL	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	ANKTON JBMERGED OATING-LVD. RAMINOID DRB CHEN RYOPHYTE	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG
	SITE	G CAR	RB, BEDRK.	C	COVER	G od	ONIFEROUS IXED	G BARREN G MEADOW IG PRAIRIE
G	OPEN WATER SHALLOW WATER SURFICIAL DEP, BEDROCK			G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G OPEN G SHRUB G TREED			G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
ST	AND DESC	RIPTIC	ON:			Mon		
	LAYER	нт	CVR		RDER OF DECREA TER THAN; > GREA			
1	CANOPY							
2	SUB-CANOPY							
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	GRD, LAYER			HT 25 m 3 = 2 <ht 10="" m<="" th=""><th></th><th></th><th></th><th></th></ht>				
HT		0= NON		HT 25 m 3 = 2 <ht 10="" n<br="">< CVR 10% 2= 10 < C</ht>			1 m 6 = 0.2 <ht 4= CVR > 60%</ht 	
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HT CV ST	CODES: R CODES AND COMPOSITI	0= NONI ION: ALYSIS	E 1= 0% ·	< CVR ≥ 10% 2= 10 < C	VR : 25% 3= 25 < CV		4= CVR > 60%	BA:
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		UTMZ:	U	TME.		JTMN:	
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	SYSTEM		STRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNIT
-	TERRESTRIAL	G ORG		G LACUSTRINE G RIVERINE	G NATURAL	G PLANKTON G SUBMERGED	G LAKE G POND
_	WETLAND AQUATIC	G PAR G ACIE G BASI	ERAL SOIL ENT MIN. DIC BEDRK. IC BEDRK.	G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF	G cultural	G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS	G RIVER G STREAM G MARSH G SWAMP G FEN G BOG
	SITE	G CAR	B. BEDRK.	G TALUS G CREVICE / CAVE G ALVAR	COVER	G CONIFEROUS G MIXED	G BARREN G MEADOW G PRAIRIE
G	OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK			G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G OPEN G SHRUB G TREED		G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
		RIPTION:					
S	TAND DESC	RIPTIC	ON:	SPECIES IN O	RDER OF DECREA	ASING DOMINANCE	(up to 4 sp)
	LAYER	HT	CVR			ATER THAN; = AB	
1	CANOPY						
2	SUB-CANOPY						
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	CODES:	1 = >25 (T 25 m 3 = 2 <ht 10="" m<="" td=""><td></td><td>0.5<ht 1="" 6="0.2<H<br" m="">/R 60% 4= CVR > 60</ht></td><td></td></ht>		0.5 <ht 1="" 6="0.2<H<br" m="">/R 60% 4= CVR > 60</ht>	
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SI DI AE CC	TANDING SNAG EADFALL / LOG BUNDANCE CODE DMM. AGE :: OIL ANALYS EXTURE:	GS: GS: ES: N	I = NONE	< 10 < 10 < 10 R = RARE O = YOUNG	10 - 24 10 - 24 OCCASIONAL MID-AGE	25 - 50 25 - 50 A = ABUNDANT	> 50 > 50 > 50 > 50 GROW
SI DI AE CC	TANDING SNAC EADFALL / LOC BUNDANCE CODE DMM. AGE : OIL ANALYS EXTURE: DISTURE:	3S: 3S: ES: N	I = NONE PIONEER	< 10 < 10 R = RARE O = YOUNG DEPTH TO MODE DEPTH OF ORG	10 - 24 10 - 24 OCCASIONAL MID-AGE	25 - 50 25 - 50 A = ABUNDANT MATURE	> 50 > 50 > 50 OLD GROW G=
ST DE AE CC TE	FANDING SNAGE ADFALL / LOG BUNDANCE CODE DMM. AGE : OIL ANALYS EXTURE: OMOGENEOUS	SS: SS: ES: N	I = NONE PIONEER	< 10 < 10 R = RARE O = YOUNG DEPTH TO MO DEPTH TO BED	10 - 24 10 - 24 OCCASIONAL MID-AGE	25 - 50 25 - 50 A = ABUNDANT MATURE g =	> 50 > 50 > 50 OLD GROW G= (c)
ST DE AE CC TE	FANDING SNAC EADFALL / LOC BUNDANCE CODE DMM. AGE : OIL ANALYS EXTURE: DISTURE: DMOGENEOUS	SS: SS: ES: N IS:	I = NONE PIONEER RIABLE SIFICATI	< 10 < 10 R = RARE O = YOUNG DEPTH TO MO DEPTH TO BED	10 - 24 10 - 24 OCCASIONAL MID-AGE	25 - 50 25 - 50 A = ABUNDANT MATURE g =	> 50 > 50 > 50 OLD GROW G=
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ELC	SITE				POLYGON:	-					
COMMUNITY DESCRIPTION &	SURVE	YOR(S):		DATE.	TIME, star						
CLASSIFICATION	UTMZ.	U	TME.		JTMN:						
POLYGON DE	SCRI	PTION									
SYSTEM		STRATE	TOPOGRAPHIC	HISTORY	PLANT FORM	COMMUNITY					
			FEATURE								
G TERRESTRIAL	G ORG		G LACUSTRINE G RIVERINE	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED	G LAKE G POND					
G WETLAND G AQUATIC		ERAL SOIL ENT MIN.	G BOTTOMLAND G TERRACE	GCULTURAL	G FLOATING-LVD. G GRAMINOID	G RIVER G STREAM					
G AGOATIC		IC BEDRK.	G VALLEY SLOPE G TABLELAND		G FORB	G MARSH G SWAMP					
	G BASI	C BEDRK.	G ROLL, UPLAND		G BRYOPHYTE G DECIDUOUS	G FEN G BOG					
SITE	G CAR	8. BEDRK.	G TALUS G CREVICE / CAVE G ALVAR	COVER	G CONIFEROUS G MIXED	G BARREN G MEADOW G PRAIRIE					
G OPEN WATER			G ROCKLAND G BEACH / BAR	G OPEN		G THICKET G SAVANNAH					
G SHALLOW WATER G SURFICIAL DEP.	1		G SAND DUNE G BLUFF	G SHRUB		G WOODLAND G FOREST					
G BEDROCK	U.		O BLUFF		G PLANTATION						
STAND DESCI	RIPTIC	DN:									
					ASING DOMINANCE						
LAYER	НТ	CVR	(>> MUCH GREAT	ER IHAN; > GRE	ATER THAN; = ABO	OT EQUAL TO)					
1 CANOPY											
2 SUB-CANOPY	_		•								
3 UNDERSTOREY		<u> </u>									
4 GRD. LAYER											
HT CODES:			25 m 3 = 2 <ht 10="" m<br="">CVR 10% 2= 10 < CV</ht>		0.5 <ht 1="" 6="0.2<HT<br" m="">/R 60% 4= CVR > 60%</ht>						
CVR CODES STAND COMPOSITI	112	1-0% (- 10 x 2- 10 x 0 x			T					
•						BA:					
SIZE CLASS ANA	ALYSIS		< 10	10 - 24	25 - 50	> 50					
STANDING SNAC	SS:		< 10	10 - 24	25 - 50	> 50					
DEADFALL / LOC	SS:		< 10	10 - 24	25 - 50	> 50					
ABUNDANCE CODE	S: N	= NONE	R = RARE O =	OCCASIONAL	A = ABUNDANT						
COMM. AGE		PIONEER	YOUNG	MID-AGE	MATURE	OLD					
						GROWT					
SOIL ANALYS	IS:		DEDTUTO NO	TI ER ICI EV	15-	G=					
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HOMOGENEOUS	/ VAF										
COMMUNITY	-				EL	C CODE					
COMMUNITY			ON.			O OODL					
COMMUNITY											
	COSITE										
VEGETATIO						THE STATE					
INCLUSI	ON										
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ELC SOILS ONTARIO	SITE: POLYGON DATE:				35/	-	Cansing	(F)	PLANT SPECIES	P	ITE: OLYGOI ATE:	-	-0	5 Mgr 8th	-7		3
	Slope	R(S):				UTM	100	2 6	LIST 1:		URVEYO		= UNDE	RSTOREY 4 = GROUND (GR	D.) LAYER		
A PP Dr Position A		Гуре (lass	Z E	ASTING		NORTHING	7	ABUNDANCE CODES: R	= RARE O	= OCCAS				-		
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TURE x HORIZON							/	& P.O.	ACERSUG	R		TI.		FRAG VIR		R	
								D 0-2	ACERSASA	R			1	AGKI GRIP		0	
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								5 8/0	QUER RUB	0				TOXI RAD		R	
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ACE ROCKINESS		-		-				70 02					图	THAT SP		THE PARTY	
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RE SIZE DISC #1								T 6 3	AMEL SP			D					
RE SIZE DISC #2								1 56	RUBALEG		R						
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M	: BRUTSIC			DEPTH OF	SCANICS:		ധാ)
_	:XTURE:			OT HT930	OTTLES / GLEY	= 6	=9
IS	ISYJANA JIC	S					town and the
o	OMM. AGE		PIONEER	YOUNG	MID-YGE	BAUTAM	OLD GROWTH
3 V	ONDANCE CODE	N :s	= NONE	B = RARE	OCCASIONAL	TNAGNUBA = A	
DE	PDFALL / LOG	:S) (>	10 - 24	09 - 9Z	09 <
LS	DANS DNIGNA.	:s	56.51)[>	10 - 24	S2 - 20	09 <
IS	SE CLASS ANA	TARIS		01 >	10 - 24	S2 - 20	09 <
CA	R CODES:	34: 0= NONE 1 = >52 ^L			CAK 56% 3=56 < CAK		
Þ	GRD. LAYER						
3	UNDERSTOREY						
7	SUB-CANOPY						
ŀ	CANOPY						
	LAYER	TH	СУК		ORDER OF DECREA		
S	LAND DESCR	DILG	NO.				

оззят Ә

G SHRUB

G OPEN

С сигтиям

JARUTAN D

:3TAO

YAOTSIH

COVER

G BEACH / BAR G BEACH / BAR

GNALINOOR E RAVIA E

SULAT D

С САЯВ. ВЕРВК.

С выбы веряк.

С логою веряк.

G PARENT MIN.

C MINERAL SOIL

SUBSTRATE

SURVEYOR(S):

G ORGANIC

:SMTU

SITE

C CREVICE I CAVE

C TERRACE
C TERR

QNAJMOTTOB E

LACUSTRINE C RIVERINE

TOPOGRAPHIC FEATURE

:3MTU

ELC CODE

WOODLAND TERREST MOITATUALS

PRAIRIE SAVANNAH

MENDOM

BARREN S BOG FEN

SWAMP 5

HSHAM E

MASHTE S

POND CAKE

PLANT FORM | COMMUNITY

dainit

hate

POLYGON: US-08-19

MIXED

ТСНЕИ

G BRYOPHYTE G DECIDIOUS G CONIFEROUS

С веляменою С веляменою С вероменою С вероменое

NOTHNA.19 E

:3MIT

:NMTU

(cm)

:sejoN

С ВЕВЯОСК

G AQUATIC

GWETLAND

JAIRTESARRET D

SYSTEM

CLASSIFICATION COMMUNITY DESCRIPTION &

EFC

POLYGON DESCRIPTION

G OPEN WATER S SURFICIAL DEP TABLICIAL DEP

SITE

COMPLEX INCLUSION YEGETATION TYPE:

COMMUNITY SERIES: COMMUNITY CLASS:

ECOSILE:

COMMUNITY CLASSIFICATION:

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK:

ELC	SITE:			2	(600)	ELC	SITE	-		with maters		
LLO	POLYGON:	700		-	8	PLANT				08 5 6 20		- minasi
SOILS ONTARIO	DATE: SURVEYOR(S):	accie.	-		36	SPECIES LIST	DATI		MC	5,205		- 2
	Slope		UT	M) AC			VEYOR(S):	3 = UND	ERSTOREY 4 = GROUND (GRD.) LAY	'ER	-
A PP Dr Position Asp		Class Z	EASTING	NORTHING	1	ABUNDANCE CODES: R					12 10	
			79.		Feed &	SPECIES CODE	1 2	COL.	1	SPECIES CODE	LAYER 2 3 4	COL.
						POPU DEL	0	1		TROOT LIV	10	100
	11				8 20 g	TILL AME	R		7	FRAG VIR	R	
SOIL 1	2	3	4	5	and John Ser	DIM ANE	0		1	GERMAN	0	
XTURE x HORIZON	-	-	-	3		EALUS	R	70	1	504 SP	R	
A	_				170	Was H. Rea	A.o.S		1	ASTERSP	10	
13 cm	-6.7-				2 16 3	Quer ELIP	A		1	FOM PELT	0	
	O Shaple			(1) 42	102	Quer EUR	R		1	ONE ZENI	0	
1.5	O	1			80	FRAY PEN	0		+	CARD MILLS	R	
					A Con B Con			485	1	MAN CAPA	6	
			1		Ex B	TRea Sp		113	13	1	0	
50 cm	av	- I makeye	1. 1		2 87	CARP CAIR			- 3	1/12 1/11		
TEXTURE (L					80, 3x	JOEK WAL	2			30.50 8	P	
RSE FRAGMENTS			42		COO T	THEFS IV I KYON	We		-	DRIOPT SP	R	
TEXTURE 5: CL					5000	OLA AME	R			Tedyorn	R	./
RSE FRAGMENTS			-11		20 Case Over 2000	- Judge		-	-	Seslac Sp	R	A
TEXTURE		17	The season	- T	2 2 3	311	HH	-	-	13 COLEX 26	R	
IRSE FRAGMENTS					Se se	b Dra			1	Blue Victor	R	
ECTIVE TEXTURE					of the stand				1	Greak 3	R	X
FACE STONINESS					Som of					Asrl Inac	R	X
FACE ROCKINESS					- ax	.6				Carex 4	R	X
H TO / OF					4					Jalun So	1 15 23	X.
MOTILES 14		Ĭ			O RANGO		A			equis ARV	E LA ES	
GLEY N/A					30	1				CLAY VIR	R	
BEDROCK					of the same					PRENAN HISSP	R	
WATER TABLE		†			PL 7					Sn Greandly	R	M
CARBONATES			1			APPH VIT		K		IMP COPO?	R	
TH OF ORGANICS					SPIL	KHOUN CAI		K	1	ALI PET	K	
ORE SIZE DISC #1					Johnson -	RIBET		100		CHICO MAC	R	
DRE SIZE DISC #2					6 X	By Abo bush	A	FEE		Potenedeter S	P	
HSTURE REGIME					AL SURVE	In well st. 1		X	4	dupwed	IR	
JULIUS REGIME					The same	Phone Co		28	1	RANII ARM	P	
OIL SURVEY MAP					0, 06	Selve or		11/	-	IPIS CO	4	
LEGEND CLASS					Bark Brand	OLICK RIVON	A lag		_	real proof 8	Page	

COMMUNITY SERIES: COMMUNITY CLASS: COMMUNITY CLASSIFICATION: ELC CODE HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm) (cm) DEPTH OF ORGANICS: DEPTH TO MOTTLES / GLEY =Đ SOIL ANALYSIS: HTWORD PIONEER YOUNG OTD **BAUTAM** MID-AGE TNAGNUBA = A O = OCCYZIONYT N = NONE K = KARE ABUNDANCE CODES: 10-24 01 > DEADFALL / LOGS: 09 < 25 - 50 52 - 20 10-24 < 10 STANDING SNAGS: 09 < SIZE CLASS ANALYSIS: **SP-50** 10-24 09 < :A8 STAND COMPOSITION: 0= NONE 1= 0% < CAB 10% S= 10 < CAB 52% 3= 52 < CAB 90% 4= CAB > 90% 29-9 (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO) C/VR TH SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) STAND DESCRIPTION:

GEXIM 6

NEHON E

BHO7 5

:MMTU

COMILEROUS

SUDUCIOUS S

S BRYOPHYTE

CHAMINOID C

TELOATING-LVD

SUBMERGED S

NOTANA.PI E

: BMIT

DOLYGON:

CHREED.

BURHE E

COVER

G CULTURAL

JARUTAN &

:3TAG

YAOTSIH

HIMB O

SAND DUNE

CREVICE / CAVE

G ROLL UPLAND

A VALLEY SLOPE

QNAJMOTTOB 2

LACUSTRINE

ENTURE

TOPOGRAPHIC

:3MTU

CINAJEJBAT O

GNALAND

RAVIA Ç

SULAT E

C CARB. BEDRK.

G BASIC BEDRK.

G ACIDIC BEDRK.

G PARENT MIN.

C MINERAL SOIL

SUBSTRATE

SURVEYOR(S):

S ORGANIC

:ZMTU

:3IIS

MOITATUALS C

WOODLAND

HANNAVAS C

THICKET

BIRIARY

MEVDOM

BARREN 80e

MAMP &

HSHAM Ç

MABRITS &

HIAFH

DNO9 5

PLANT FORM | COMMUNITY

นรเนเ

NEU S

TEBRO1 5

SEJON

MOISTURE:

COMM. AGE:

CAR CODES HI CODES:

GRD. LAYER UNDERSTOREY SUB-CANOPY

CANOPY

LAYER

P BEDBOCK

DITAUDA E

G WETLAND

JAIRTRESTRIAL

SYSTEM

CLASSIFICATION DESCRIPTION &

COMMUNITY

ELC

POLYGON DESCRIPTION

SURFICIAL DEP

A OPEN WATER

RETAW WOLLAHE C

SITE

: **BAUTX 3**

COMPLEX INCENSION

YEGETATION TYPE:

ECOSITE:

Bitten bush & collabed strub Lenination of the Souls of Souls & both (alot of strust of the structures by)

		Sy thisted S	appl K		TEL CY.	1			
ELC	SITE:				ELC PLANT		don't y stere	5	100
LLC	POLYGON:				PLANT		-08/20	0	5
SOILS ONTARIO	DATE:			Travella .	SPECIES		4 05,2015	- 14	MINISTER STATE
(m)	Slope Slope	(S):		TM	LIST LAYERS: 1	SURVEYOR(S): D	3 = UNDERSTOREY 4 = GROUND (GF	DILAVER	
P/A PP Dr Position A		ype Class Z		NORTHING	al sc	R = RARE O = OCCASIONAL A =		D.) LATER	
					-00	LAYER		LAYE	
					SPECIES CODE	1 2 3 4 COL.	SPECIES CODE	1 2 :	3 4 COL
					2 3 WAPLE TREE	9	TOVARA UI.		
					5: Just maps			+++	
					3 5,720	R	ness measurable	+++	-
SOIL 1	2	3	4	5	MAPLE TREE SILVER MAPLE TILL SUMP TILL SUMP		100	++	
OCTURE x HORIZON	A				& Tili come	R			
18	4	1			V V				-
-		11,115		7,740	1 . 07				
	6			7	E of musto wood?	0	@GREX TRING	2	2
	B	1 1 1	1 - 1	10 A Tare	5 8		*STREPT	I.M.T	R
4					S TO E		K1 50 1	18/4	0
241	ch (55-61	100	- 114	111	100			+++	RI
1 1 N	41 1(2)-01	UNN			2 8		Osymul Royal		8 /
TEXTURE	L				7		Fem Sposma		N V
IRSE FRAGMENTS		700			along con	ndonaleard	· Selye Sp (Sm	4	RV
TEXTURE	5:66		-memo-	Turretture	71.0		lyco anna.	A 33 P	R
URSE FRAGMENTS	عن ودان				Alis Plant	R	imua polid		R
TEXTURE					The of water un (bone set R	Luck West		R
					Z K MALA AFINS	R	& Spars arrival Sp		9
URSE FRAGMENTS					- & Kanndyless		& ampro Trif?		R
FECTIVE TEXTURE						R	1	+++	R
RFACE STONINEBS					Ver Sp.	R	7		R
RFACE ROCKINESS				ASA THE REAL PROPERTY.	Vorb Sp.	R	larex vulp	+++	
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SITE	G CAR	B. BEDRK		LUS REVICE / CAVE VAR	C	OVER	G MIX	IIFEROUS ED		RREN ADOW MRIE
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- Section of Poly 20 is powerfer on western - many pokets & Standing with - lots of construction noise open in the understory in the NW corner -Poygon 20 way be larger enough in enough most producing Sp. to be ansidered a "Foregry Area I abundant megt" - Not old enough for dd from the - botton bosh Snormp Incl (?) if large enough would be an 53 ran habitat. -12 12" plagnic pice de along se aucres road.

			SITE:							ELC	-	SITE:	4/2	way wa	TU,	200		
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COMPLEX INCLUSION VEGETATION TYPE:

CLASSIFICATION DESCRIPTION & COMMUNITY

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COMMUNITY DESCRIPTION & COMMUNITY

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SITE

SURVEYOR(S):

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POLYGON: **25- 15- 12,** ff.

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ELC	SITE: Therefrie water								
PLANT	POLYGON: 05-15-23								
SPECIES	DATE: May 15 - 2015								
LIST	SURVEYOR(S): KB ZH								
YERS: 1 = 0	ANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER								

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER COL.				201	200000 2000		LA		COL.	
SPECIES CODE	1	2	3	4	COL.	SPECIES CODE	1	2	3	4	COL.
FRAX PENN	0				3	ean ARV.			5	0	4
POPU DEL	R					CARE GRAC				G	
Jug NiG	R					Senge Sm				0	VA
DON EVA				R		CIR WITE		1		0	VA
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CHANGE.				-		TARA RAD	H	4	-	R	-
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VIT RIP	H	-	-	0			200	1	-	H	
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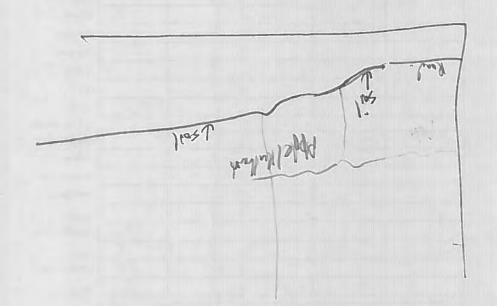
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FIC	SITE:
ELG	POLYGON:
STAND	DATE:
CHARACTERISTICS	SUBVEYOR(S):

TREE	TAI	1 4	DV	CDC	CIE
IKEE	IAL		81	SPE	CIES

PRISM FACTO	R						
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

OMMUNITY PROFILE DIAGRA	M S	MIX / populus	
X J & July	- 2007 10 [7]	BUCKTHORN	HONTHON
Carlingo	9kman «	- poor	
4/9/2-7-2			
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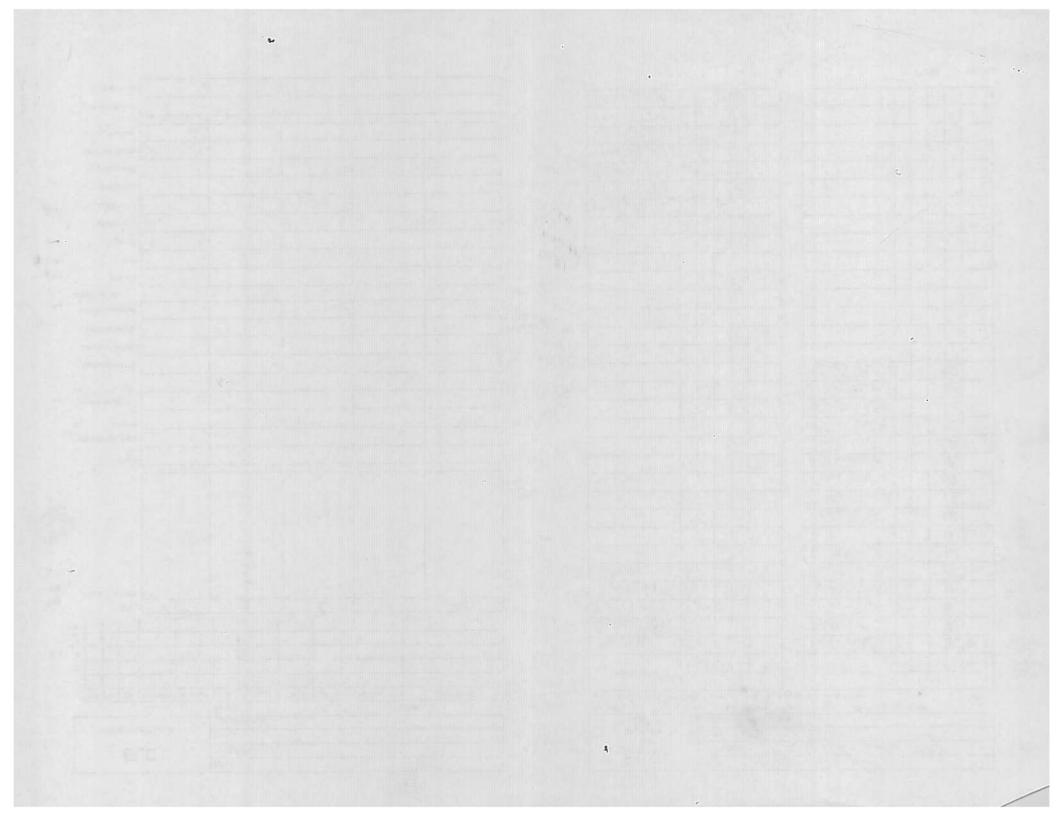
VERY SUBTLE ROLLING TOPOGRAPHY.
LOW PREAS SUPPORT SOME WETCHND INDICATORS,
eg. ONOC SENS, GLYC STRI

PREDOMINANTLY MESIC UPLAND WITH DENSE

CRAT SP, RHAM CATH, FRAX PENN UNDERSTORY

CLASS CONTROL CONTROL OF SALES

ELC	SITE:							SWD SIM	ELC	S	ITE:	THU	NDE	MING	WATER	5		
ELC	POLY							rochesian melusian	PLANT	F	OLYGO		5.0	Charg	e Swamme	PHAR	15)	
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SIZE DISC #1								CHEST PROPERTY.	RUBU 10AE	A	H	-						
SIZE DISC #2									CHATMOND	R			-					-=
URE REGIME								- V	(ORNSER)		A		-					
BURVEY MAP				- 1				7	RHAM PRAN		0	_	4					
GEND CLASS			1						RHIGH CLATH		0	2		-				



Nagan SITE: 120 SITE: POLYGON: **ELC** PLANT POLYGON: June 3/15 DATE: SPECIES DATE: SURVEYOR(S): 214 LIST SOILS ONT ARIO SUR VEY OR(S): Slope UTM LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER Type Class % N pos Nlength E pos Elength EAST NORTH ABUNDANCE CODES: R = RARE D = OCCASIONAL A = ABUNDANT D = DOMINANT ASTUULA LAYER COLL SPECIES CODE COLL. 2 3 LOLBRAT/Ann 2 3 0 0000 SOIL ASSESSMENT 1 2 3 4 5 6 7 8 TEXTURE x HOREON ARGRAC 0 LAPCOMM ceum-si TEXTURE COURSE FRAGMENTS 70 TEXTUR **COURSE FRAGMENT** 0 TEXTUR COURSE FRAGMENT **EFFECTIVE TEXTUR** SURFACE STONINES OXA MONT 0 SURFACE ROCKINESS A DEPTH TO / OF X DISTINCT MOTTLES PROMINENT MOTTLE TORUIRCO MOTTLES + GLEY PRUVIUI 40 POTSIMI 0 GLE R BEDROCK CARBONATES 20 DEPTH OF ORGANICS 0 0 0 PORE SIZE DISC LYS NUMM PORE SIZE DISC # W No HI MOISTURE REGIME UIN MYWU SOIL SURVEY MAP UNIT(S) LEGEND CLASS TEXTUR includant Junks Page .. P. of ا (دو

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SITE	□ CAR	B. BEDRI	: 몸당	ALUS REVICE / CAVE LVAR	C	OVER	CON	IIFEROUS ED	BAI ME PR	ADOV	N	
OPEN WATER SHALLOW WATER SURFICIAL DEP. BEDROCK			O B	OCKLAND EACH / BAR AND DUNE LUFF	OPE SHE	RUB			SAY	VANN OODL/ REST	IAH AND	
STAND DESC	RIPTIC	N:										
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2 SUB-CANOPY	3	4	CV	CASP	710	OREI	46	2 14	EACO	Ato	4	
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UNDERSTOREY			100	RRACE	2	PRIXE	ENL	/				
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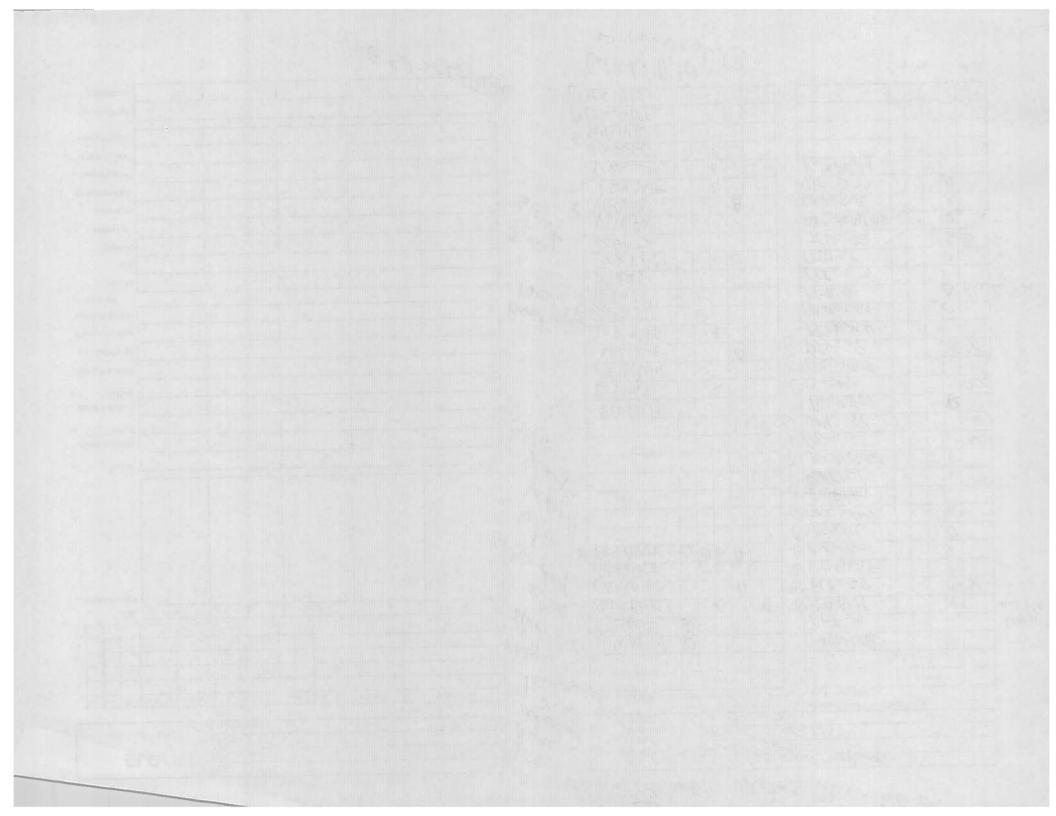
ELC

STAND & SOIL CHARACTERISTICS

Notes:

SOIL ASSESSM ENT:	1	2	3	4	5	6	7	8
EFFECTIVE Texture	£							
DEPTH TO: Mottles (g)	g=							
GLEY (G)	G=							
DEPTH OF ORGANICS								
DEPTH TO BEDROCK								
MOISTURE REGIME								

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_	-0		POLYC							J'AS'	ELC	-	POLYG	ON: 26	300	ra Hunder			\dashv
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CARBONATES							+	-		Jen s	PARINSE	-	++	A .		MCBOUNN		-	-
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COURSE FRAGMEN				99	- 1	-					
EFFECTIVE TEXTL	_		***	4					-		-
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SURFACE ROCKINE	55	- //									
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MOTTLES + GL	EY	\neg									1
GL	EY										
BEDRO	СК									1,3	
CARBONAT	ES						-			3.7	etc.
DEPTH OF ORGAN	ICS										
PORE SIZE DISC	#1			5							
PORE SIZE DISC	82						-		- 4		-
MOISTURE REG	ME			1.3						- 1	
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SOIL SURVEY MAP UNIT	(S)	- 1									
LEGEND CLA	ss			100		$\neg \neg$			$\neg \Gamma$		
LEGEND CLA	_			·V							

SITE:

FLC	SITE:
ELC	POLYGON: 276
PLANT Species	DATE:
LIST	SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CMOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	3,0	LA	YER		COLL.		SPECIES CODE		LA	YER		COLL
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PRUSPI			4	R			medens					
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DURPHEN PORDEST ULMAMER	6		Г			1	AGROSTY			and a	R	
ILLUAMER	IA					-	Sm Forinness		+	M	R	
4 4-	1					1	I MACUAPS					
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						1	MARDPENNS				R	
						1	GLYSTLI				A	
n 10 -i						1	CARSTIP			1	,	
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	¥ +=+					1	LYTSAU		-			
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						١,	CBRSC				K	X
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LIN BENZ			n			-			-	-	\vdash	

Page of

314

	ELC	SITE:				POLYGON:	
D	COMMUNITY ESCRIPTION &	SURVE	YOR(S):		DATE:	TIME: star	
	LASSIFICATION	UTMZ:		UTMZ:		UTMN:	
PC	DLYGON DE	SCRII	PTION				
	SYSTEM	SUBS	TRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
o .	TERRESTRIAL	□ org	ANIC	LACUSTRINE	☐ NATURAL	PLANKTON	□ LAKE □ POND
	WETLAND	☐ MINE	RAL SOIL	RIVERINE BOTTOMLAND	☐ CULTURAL	SUBMERGED FLOATING-LVD	RIVER
]	AQUATIC	☐ PARE		☐ TERRACE ☐ VALLEY SLOPE		GRAMINOID FORB	STREAM MARSH
		1450000	IC BEDRK	T ROLL LIPLAND		☐ LICHEN ☐ BRYOPHYTE	SWAMP FEN
		1200	C BEDRK	TALLIE		DECIDUOUS CONIFEROUS	☐ BOG ☐ BARREN
	SITE	LI CAR	B. BEDRK	CREVICE / CAVE	COVER	☐ MIXED	☐ MEADOW ☐ PRAIRIE
	OPEN WATER			☐ ROCKLAND ☐ BEACH / BAR	☐ OPEN		☐ THICKET ☐ SAVANNAH
	SHALLOW WATER SURFICIAL DEP.			☐ SAND DUNE	☐ SHRUB		☐ WOODLAND ☐ FOREST
	BEDROCK			☐ BLUFF	☐ TREED		PLANTATION
 57	TAND DESC	RIPTIC	N:				
	LAYER	нт	CVR			ASING DOMINANCE ATERTHAN; = ABO	
1	CANOPY						
2	SUB-CANOPY		-				
3	UNDERSTOREY	-					
4	GRD. LAYER						
4	GRD. LAYER	1 = >25 n	2 = 10<	HT 25 m 3 = 2 <ht 10="" m<="" th=""><th>1 4=1<ht 2="" 5="</th" m=""><th>0.5<ht 1="" 6="0.2<HT</th" m=""><th>0.5 m 7 = HT<0.2 r</th></ht></th></ht></th></ht>	1 4=1 <ht 2="" 5="</th" m=""><th>0.5<ht 1="" 6="0.2<HT</th" m=""><th>0.5 m 7 = HT<0.2 r</th></ht></th></ht>	0.5 <ht 1="" 6="0.2<HT</th" m=""><th>0.5 m 7 = HT<0.2 r</th></ht>	0.5 m 7 = HT<0.2 r
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4 HT CV	CODES:	0= NONE					
4 HT CV	CODES:	0= NONE					K
4 CV	CODES:	0= NONE	1= 0% <				K
HT CV ST	CODES: R CODES	0= NONE	1= 0% <	CVR 10% 2= 10 < C	VR < 25% 3= 25 < C\	VR ≤ 60% 4= CVR > 60%	BA:
HT CV ST	CODES: R CODES AND COMPOS ZE CLASS ANA	0= NONE SITION: ALYSIS:	1= 0% <	CVR 10% 2=10 < C	VR = 25% 3= 25 < CV	VR 60% 4= CVR > 809	BA: > 50
4 HT CV	CODES: R CODES AND COMPOS ZE CLASS ANA	0= NONE SITION: ALYSIS: GS:	1= 0% <	CVR 10% 2= 10 < CV < 10 < 10 < 10 < 10	VR = 25% 3= 25 < CV	25 - 50 25 - 50	BA: > 50 > 50
4 HT CV	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG	0= NONE SITION: ALYSIS: GS:	= 1= 0% ·	<pre>< CVR 10% 2=10 < CV</pre>	10 - 24 10 - 24 10 - 24 10 - 24 0 - 24	25 - 50 25 - 50 25 - 50 A = ABUNDANT	BA: > 50 > 50 > 50 > 50
4 HT CV	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG	0= NONE SITION: ALYSIS: GS:	= 1= 0% <	<pre>< CVR 10% 2=10 < CV</pre>	VR = 25% 3= 25 < CV	25 - 50 25 - 50 25 - 50	BA: > 50 > 50 > 50 > 50
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HT CV	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG ADFALL /LOG UNDANCE CODE	0= NONE SITION: ALYSIS: GS: GS:	= 1= 0% ·	<pre>< CVR 10% 2=10 < CV</pre>	10 - 24 10 - 24 10 - 24 = OCCASIONAL MID-AGE	25 - 50 25 - 50 25 - 50 A = ABUNDANT	BA: > 50 > 50 > 50 > 50
HT CV ST ST DE AB	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG ADFALL /LOG UNDANCE CODE DMM. AGE:	0= NONE SITION: ALYSIS: GS: GS:	= 1= 0% ·	<pre>< CVR 10% 2=10 < CV</pre>	10 - 24 10 - 24 10 - 24 10 - 24 0CCASIONAL MID-AGE	25 - 50 25 - 50 25 - 50 A = ABUNDANT	BA: > 50
ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAGE ADFALL /LOG UNDANCE CODE DMM. AGE: DIL ANALYS XTURE:	0≈ NONE SITION: ALYSIS: SS: SS: SS: SS: SS:	= 1= 0% -	<pre>< CVR 10% 2=10 < CV</pre>	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 A = ABUNDANT	BA: > 50
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ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG AND	D= NONE SITION: ALYSIS: SS: SS: SS: VAR CLASS	= NONE PIONEE	CVR 10% 2=10 < CV 10 10 10 10 R YOUNG DEPTH TO MODEPTH TO BEE	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 A = ABUNDANT	BA: > 50 > 50 > 50
ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAC AND	DENONE ALYSIS: ALYSIS: SS: SS: SS: VAR CLASS	= NONE PIONEE	CVR 10% 2=10 < CV 10 10 10 10 R YOUNG DEPTH TO MODEPTH TO BEE	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 25 - 50 A = ABUNDANT MATURE	BA: > 50
ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG AND	D= NONE ALYSIS: ALYSIS: SS: SS: SS: CLASS CLASS SERIES	= NONE PIONEE	CVR 10% 2=10 < CV 10 10 10 10 R YOUNG DEPTH TO MODEPTH TO BEE	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 4 = ABUNDANT MATURE	BA: > 50
ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG AND	D= NONE ALYSIS: ALYSIS: SS: SS: VAR CLASS SERIES COSITE	= NONE PIONEE IABLE SIFICA :	CVR 10% 2=10 < CV 10 10 10 10 R YOUNG DEPTH TO MODEPTH TO BEE	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50	BA: > 50
ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG AND	D= NONE ALYSIS: ALYSIS: SS: SS: VAR CLASS SERIES COSITE	= NONE PIONEE IABLE SIFICA :	CVR 10% 2=10 < CV 10 10 10 10 R YOUNG DEPTH TO MODEPTH TO BEE	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 4 = ABUNDANT MATURE	BA: > 50
ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG AND	D= NONE ALYSIS: ALYSIS: SS: SS: VAR CLASS SERIES COSITE	= NONE PIONEE IABLE SIFICA :	CVR 10% 2=10 < CV 10 10 10 10 R YOUNG DEPTH TO MODEPTH TO BEE	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50	BA: > 50
ST S	CODES: R CODES AND COMPOS ZE CLASS ANA ANDING SNAG AND	DENONE BITION: ALYSIS: ALYSIS: BS: BS: BS: CLASS CLASS CLASS COSITE N TYPE	= NONE PIONEE IABLE SIFICA :	CVR 10% 2=10 < CV 10 10 10 10 R YOUNG DEPTH TO MODEPTH TO BEE	10 - 24 10 - 24 10 - 24 10 - 24 10 - 24 MID-AGE TTLES / GLEY GANICS:	25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50 25 - 50	BA: > 50

FIC		SITE:								
ELC		POLY	ON:	276	(101	+ 5	ele i	1 Oa	(
STAND & SOIL		DATE:					, -		1	
CHARACTERIST	ıcs	SUR VE	YOR(S)):		v				
TREE TALLY BY SPE	CIES:									
PRISM FACTO										
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TALLY 6	TALLY 7	TALLY 8	TOTAL	REL. AVG
	i jed				(E)					
	-					4				
					1					13.5%
TOTAL										100
BASAL AREA (BA)										
DEAD										
	L									
STAND COMPOSITION	N:									
SOIL ASSESSMENT:	1	2	3	4	5	6	7	8		
EFFECTNE TEXTURE										
DEPTH TO: MOTTLES (g)	g=									
GLEY (G)	G=									
DEPTH OF ORGANICS										
DEPTH TO BEDROCK					Y,		1.00			

MOISTURE REGIME

Notes:

COMMUNITY PROFILE DIAGRAM

SITE: **ELC** SITE: POLYGON: 27a CLC POLYGON: PLANT DATE: DATE: **SPECIES** SURVEYOR(S): LIST SURVEYOR(S): 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER LAYERS: UTM Slope ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT PA PP Dr Position Aspect % Type Class Z **EASTING NORTHING** LAYER LAYER SPECIES CODE COL. SPECIES CODE COL. 1 2 3 4 Don Slough MPCHOE KILXOGINY SOIL 2 3 4 5 HLWAU BY TRAVIRCO TEXTURE x HORIZON 0 Black? A AR GRAY? SOLRUGO Pools or xark W MALOUAYSA 6 FREGULAN a CLYSTRI R POPPEUT TEXTURE 12 COURSE FRAGMENTS GERRAMINEU P TEXTURE R COM-SP b COURSE FRAGMENTS A POTETIMO TEXTURE ely POPDET 0 26 FPI-SP COURSE FRAGMENTS 757 -HIEDRAT EFFECTIVE TEXTURE HYD.SP 6 **SURFACE STONINESS** American American UEROFFI SURFACE ROCKINESS ASTUALL DEPTH TO / OF UIBACUL MOTTLES HAMURG GLEY Q VIB Arraw BEDROCK Tall sedie en 25.7 WATER TABLE SILLSMAN CARBONATES Leusin Will DEPTH OF ORGANICS STEROSE PORE SIZE DISC #1 PAPUNC R Ancaes? PORE RIZE DISC #2 MYO-SP 21 MOISTURE REGIME SOIL SURVEY MAP ATRHUM LEGEND CLASS up sedsepholon Page of

ELC	SITE					POLY	rgon:		
COMMUNITY DESCRIPTION &	SURV	EYOR(S):		D/	ATE.	Т	IME. star finisi	,	
CLASSIFICATION	UTMZ.		UTME:			UTMN:			
POLYGON DE	SCRI	PTION							
SYSTEM	SUB	STRATI	E TOPOGRA FEATUR		HISTORY	PLA	NT FORM	CON	MUNIT
G TERRESTRIAL ENETLAND G AQUATIC	G ACI	BANIC ERAL SOIL BENT MIN. DIC BEDRK	G TERRACE G VALLEY SL G ROLL UPL	OPE	NATURAL CULTURAL	G SU G G G G G G G G G	HEN YOPHYTE	GLAK GPOP GRIVE GSTR GSTR GSTR GSTR GSTR GSTR GSTR GSTR	ND ER REAM RSH AMP
SITE	1000	RB. BEDRK	G TALUS	CAVE	COVER		CIDUOUS INIFEROUS KED		REN DOW
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G ALVAR G ROCKLAND G BEACH / B G SAND DUN G BLUFF	AR G	OPEN SHRUB TREED			G FOF	
STAND DESCI	RIPTIC	ON:							
LAYER	нт	CVR			R OF DECRE				
1 CANOPY		1							
2 SUB-CANOPY									
3 UNDERSTOREY									
4 GRD, LAYER									
STAND COMPOSITION								BA:	
SIZE CLASS ANA	LYSIS	:	< 1	0	10 - 24		25 - 50		> 50
STANDING SNAG	S:		<1	0	10 - 24		25 - 50	6.9	> 50
DEADFALL / LOG	s:		< 1	0	10 - 24		25 - 50		> 50
ABUNDANCE CODE	S: N	= NONE	R = RARE	0 = 00	CASIONAL	A = AE	BUNDANT		
COMM. AGE :		PIONEE	R YOUNG		MID-AGE	Y	MATURE		OLD GROWTI
SOIL ANALYSI	S:								
TEXTURE:			DEPTH TO			g =		G=	
MOISTURE: HOMOGENEOUS	/ WAE	IADI E	DEPTH OF						(cm
COMMUNITY (The same	planting to	1,000	BEDRO	OK.		E1.4	c cor	(cm
COMMUNITY	_	_	ION.			-		5 601	JE
COMMUNITY S	ERIES	:			1		11777	Heyar	
EC	OSITE	:	70 20						
VEGETATION	N TYPE								10
INCLUSE	ON								-191
COMPLE	x		W#95.72	18-			an i		
Notes:	-			-			-	-	

IMG 1046-48

ELC	SITE:				
ELC	POLYGON: DATE:				
STAND					
CHARACTERISTICS	SURVEYOR(S):				

TALLY 4	TALLY 5		REL.
	TALLY	TOTAL	AVG
		1	
71/2			
			100
			•

DEAD			
STAND COMPOSITION:			
COMMUNITY PROFILE DIA	GRAM		

	_	SITE:						- 32	
	LC	POLY	GON:						
SOILS	ONTARIO	DATE				-			
	Will Co		EYOR(S):						
P/A PP Dr	Position A	Slope spect %		Class	Z	EASTING	MTK	THING	,
PIA PP Dr	Position A	spect %	Туре	Class	-	EASTING	NOR	IHING	
	EN TOP		+						
					-				
	7.00	L							1
	The same of								
SOIL	1		2		3	4	37.12	5	1
TEXTURE x HORIZON	AL	100	-			V			1
	Macm AV	7							
	B			215					
1	3000	1		1		N. Er	100		
->	-	2							
1000	48cm	2					900		
	-	33				1 - 4			
60			T		1-0				
TEYTIBLE				T					1
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OURSE FRAGMENTS TEXTURE						-			1
TEXTURE	SICL						100		
OURSE FRAGMENTS		3000	100	17%					
TEXTURE	SICL	63	DC1						1
OURSE FRAGMENTS					-	-	-		
EFFECTIVE TEXTURE				-			-		1
URFACE STONINESS			0130			1			ł
URFACE ROCKINESS	-					0 (198)			
PTH TO / OF									1
MOTTLES	14								1
	1000								ł
GLEY	SOCW			1999			EVIL	21.5	1
BEDROCK		(0)				- d	1011		Į
WATER TABLE	4			1	2010	1.435	100		
CARBONATES	1						, T 5		
EPTH OF ORGANICS	15 1			4 4 -		- 10		R. D	1
PORE SIZE DISC #1	- Kan	- 70		3,,,		tri-land	19.4		
PORE SIZE DISC #2		- 10		12	175(0)				
MOISTURE REGIME									
									1
SOIL SURVEY MAP			ستنيا		4-11				
LEGEND CLASS		- 13				-1			

ELC	SITE: THUNDERLING WATERS
ELC	POLYGON: 27
PLANT SPECIES	DATE: 14N 3/2018
LIST	SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT LAYER LAYER SPECIES CODE COL. SPECIES CODE COL. 2 3 2 3 4 they AMER IMPA CAPE QUER PALU B SYMPLANC GLYCSTRI A RY CHUN GORD CARE HYST PRUMSERO FLAG VIRG CARY OVAT 0 PANY AROR Ö, Pag ? ACEN SHICH P ancuss! 36 CARE ROSE QUER BICO FRAX PENNOOAA CARE LACU ONING SONS 0 R BOHE CYLI ARROW FLOOD CHRE LETRO 0 ASCL INCA R EER SHOOT DAIDE SENS CARE INTU DRYO P. Cicu MHCV CORE GRAC CHAT CHUS ASTE MACR R LIND GENZ R Paninculas R JALI BEBB CIRC LUTIN 00 RUBY IDAY GENU SP VITI KUPA TOUA VIRG PART VITA CORN PACE LONI TATA RHIM CATH A 0

Page of

	ELC	SITE:					PO	LYGON:			
	COMMUNITY ESCRIPTION &	SURVE	YOR(S):			DATE		TIME start finish			
	ASSIFICATION	UTMZ:		UTME			JTMN				
20	LYGON DE	SCRI	PTION								
j	SYSTEM		STRATI	T	OPOGRAPHIC FEATURE	HISTORY	P	LANT FORM	COMMUNITY		
3 T	ERRESTRIAL	G org	ANIC	Ģ	LACUSTRINE RIVERINE	G NATURAL	Ģ	PLANKTON	G LAKE		
e e	VETLAND	G MINE	ERAL SOIL	ΙG	BOTTOMLAND	G CULTURAL	IG	SUBMERGED FLOATING-LVD,	G POND G RIVER		
3 A	QUATIC	G ACIE	ENT MIN. HC BEDRK HC BEDRK	. IG	TERRACE VALLEY SLOPE TABLELAND ROLL, UPLAND CLIFF		GG	GRAMINOID FORB LICHEN BRYOPHYTE DECIDUOUS	G STREAM G MARSH G SWAMP G FEN G BOG		
	SITE		B. BEDRK	G	CREVICE / CAVE ALVAR	COVER	ΠG	CONIFEROUS MIXED	G BOG G BARREN G MEADOW G PRAIRIE		
	PEN WATER			G	ROCKLAND BEACH / BAR	G OPEN			G THICKET G SAVANNAH		
3 s	SURFICIAL DEP.			G	SAND DUNE BLUFF	G SHRUB G TREED			G WOODLAND G FOREST		
_	LEITOOK	L				GIREED			G PLANTATION		
ī	AND DESC	RIPTIC	N:								
	LAYER	нт	CVR	(>>		RDER OF DECRE ER THAN; > GRE					
П	CANOPY	-	-		WER PA			MMEQ>	ACENES AC		
41			-		WEKIN	ou / no	1.01	THU DICK	TC STIC		
, Г	SUBLICANOPY										
	SUB-CANOPY					70-3		- House			
i I	UNDERSTOREY GRD. LAYER CODES:	1 = >25			m 3 = 2 <ht-10 m<br="">10% 2= 10 < CV</ht-10>	4 = 1 <ht 2="" 5="<br" m="">R 25% 3= 25 < C</ht>					
IT O	UNDERSTOREY GRD. LAYER CODES:	1 = >25 r 0= NONE									
IT O	UNDERSTOREY GRD. LAYER CODES: R CODES	1 = >25 r 0= NONE ON:	E 1= 0%								
IT (CVR	UNDERSTOREY GRD. LAYER CODES: R CODES AND COMPOSITI	1 = >25 0= NONE ON:	E 1= 0%		10% 2= 10 < CV	R 25% 3= 25 < C		% 4= CVR > 60%	BA:		
IT OF	UNDERSTOREY GRD. LAYER CODES: R CODES UND COMPOSITI	1 = >25 r 0= NONE NON: ALYSIS:	E 1= 0%		10% 2= 10 < CV	R 25% 3= 25 < C		% 4= CVR > 60% 25 - 50	BA: > 50		
IT OE	UNDERSTOREY GRD. LAYER CODES: R CODES UND COMPOSITI	1 = >25 0= NONE ON: ALYSIS GS:	E 1= 0%	CVR	<pre>10% 2= 10 < CV</pre>	R 25% 3= 25 < C	/R = 60	25 - 50 25 - 50	BA: > 50 > 50		
STA SIZ DE/	UNDERSTOREY GRD. LAYER CODES: R CODES UND COMPOSITION E CLASS ANA ANDING SNAC	1 = >25 0= NONE ON: ALYSIS GS:	= 1= 0%	CVR	<pre>10% 2= 10 < CV</pre>	10 - 24 10 - 24	/R = 60	25 - 50 25 - 50 25 - 50	BA: > 50 > 50 > 50 OLD		
STA SIZ DE/	UNDERSTOREY GRD. LAYER CODES: R CODES UND COMPOSITI E CLASS ANA ANDING SNAC ADFALL / LOG	1 = >25 0= NONE ON: ALYSIS GS:	= 1= 0% ·	CVR	<pre></pre>	10 - 24 10 - 24 10 - 24 10 - 24	/R = 60	25 - 50 25 - 50 25 - 50 25 - 50 ABUNDANT	BA: > 50 > 50 > 50 OLD		
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		1000000	C BEDRK.	G ROLL UPLAND		G BRYOPHYTE G DECIDUOUS	G FEN G BOG
	SITE	G CAR	8. BEDRK.	G TALUS G CREVICE / CAVE	COVER	G CONIFEROUS G MIXED	G BARREN G MEADOW
G	OPEN WATER	1		G ALVAR G ROCKLAND	G OPEN		G PRAIRIE G THICKET
	OPEN WATER SHALLOW WATER SURFICIAL DEP.			G BEACH / BAR G SAND DUNE	G SHRUB		G SAVANNAH G WOODLAND
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Notes:

STAND CHARACTERISTICS SURVEYOR(S): TREE TALLY BY SPECIES: PRISM FACTOR REL. AVG TALLY 4 TALLY 5 TOTAL SPECIES TALLY 1 TALLY 2 TALLY 3 TOTAL 100 BASAL AREA (BA) DEAD STAND COMPOSITION: COMMUNITY PROFILE DIAGRAM Notes:

SITE:

POLYGON: DATE:

ELC

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SITE		RB. BEDRK,	G	CLIFF TALUS CREVICE / CAVE ALVAR	COVER		CONIFEROUS	G BAI	RREN ADOW
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP.			G	ROCKLAND BEACH / BAR SAND DUNE	G OPEN G SHRUB			G THI G SA	CKET VANNAH XODLAND
G BEDROCK			G	BLUFF	G TREED			G FO	REST ANTATION
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DEADFALL / LOG	S:			< 10	10 - 24		25 - 50		> 50
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HOMOGENEOUS	/ VAF	RIABLE	DE	PTH TO BED	ROCK:				(cm)
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Notes:

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TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:	
COMMUNITY PROFILE DIAGRAM	







Plant Identification Notes

Dject Name: Thurdery Water Project Number: DA15-014-01

Identified by: $\mathcal{P}\mathcal{M}$.

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APPENDIX E: SALAMANDER DNA TESTING RESULTS



Appendix E: Results from DNA testing of Salamander tail tips collected from the Thundering Waters property (spring 2015):

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8	8	1	1	10-Apr-15	654434.00 m E 4769119.00 m N	LLJ
8	8	1	2	10-Apr-15	654434.00 m E 4769119.00 m N	LL
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8 4 16 10-Apr-15 654434.00 m E 4769119.00 m N LL	8	4	14	10-Apr-15	654434.00 m E 4769119.00 m N	LL
	8	4	15	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8 4 17 10-Apr-15 654434.00 m E 4769119.00 m N LL	8	4	16	10-Apr-15	654434.00 m E 4769119.00 m N	LL
	8	4	17	10-Apr-15	654434.00 m E 4769119.00 m N	LL

APPENDIX F: NOCTURNAL AMPHIBIAN CALL SURVEY SUMMARY



Station ¹	Date (2015)		Frog Species ² and Breeding Evidence Codes ³						
		Proximity	Spring Peeper Pseudacris crucifer	American Toad Anaxyrus americanus	Western Chorus Frog Pseudacris triseriata	Northern Leopard Frog Lithobates pipiens	Gray Treefrog Hyla versicolor	Wood Frog Lithobates sylvaticus	
1 (180°)	April 19	< 100 m	L2(4)						
		> 100 m	L2(5)	L2(3), L2(5)	L2(8)				
	May 28	< 100 m							
		> 100 m							
		< 100 m					L1(1)		
	June 24	> 100 m		L1(1)					
		< 100 m	L2(3)		L2(3), L2(8)				
	April 19	> 100 m							
2		< 100 m							
(180°)	May 28	> 100 m	L1(1)						
		< 100 m		L1(1)			L1(1)		
	June 24	> 100 m							
		< 100 m			L2(3)				
	April 19	> 100 m	L2(3)						
3		< 100 m							
(90°)	May 28	> 100 m	L1(1)				L1(1)		
		< 100 m	, ,				, ,		
	June 24	> 100 m							
		< 100 m							
	April 19	> 100 m	Distant						
4		< 100 m							
(100°)	May 28	> 100 m	L1(1)				L1(3), L1(1)		
		< 100 m	, ,				, ,, , ,		
	June 24	> 100 m					L1(1)		
		< 100 m	L2(5)		L2(3)		()		
	April 19	> 100 m	ν-,		(-,				
5		< 100 m					L1(2)		
(100°)	May 28	> 100 m					,		
		< 100 m							
	June 24	> 100 m							
		< 100 m	L2(3), L1(1)	L2(7)	L1(1)	L1(1)			
	April 19	> 100 m	L2(8) offsite		L1(2)	(-)			
6		< 100 m	(_, 55		_ · (_ /		L1(1)		
(50°)	May 28	> 100 m					(,		
		< 100 m							
	June 24	> 100 m							
7 (30°)		< 100 m	L2(4)	L2(5)	L2(3)				
	April 19	> 100 m	22(1)	22(3)	LZ(3)				
		< 100 m							
	May 28	> 100 m					L1(1)		
		< 100 m					21(1)		
	June 24	> 100 m							
8 (20°)		< 100 m	L2(3), L2(3)		L1(1)				
	April 19		LZ(3), LZ(3)	12/5//12	LI(I)				
	May 20	> 100 m	11/1)	L2(5)/L3			11(2)		
	May 28	< 100 m	L1(1)				L1(2)		

	Date (2015)		Frog Species ² and Breeding Evidence Codes ³						
Station ¹		Proximity	Spring Peeper Pseudacris crucifer	American Toad Anaxyrus americanus	Western Chorus Frog Pseudacris triseriata	Northern Leopard Frog Lithobates pipiens	Gray Treefrog Hyla versicolor	Wood Frog Lithobates sylvaticus	
		> 100 m							
	June 24	< 100 m							
	Julie 24	> 100 m							
	April 10	< 100 m	L3		L3, L3				
	April 19	> 100 m							
9	May 28	< 100 m					L1(2), L2(3)		
(0°)		> 100 m						L1(1)	
	. 24	< 100 m					L1(1)		
	June 24	> 100 m							
	April 19	< 100 m		L3(2)	L2(3), L2(3)				
		> 100 m							
10	May 28	< 100 m					L1(1)		
(0°)		> 100 m					L1(1)		
	June 24	< 100 m					L1(1)		
		> 100 m					L1(2)		
	May 28	< 100 m					L1(1), L2(2)		
11		> 100 m					L2(3)		
(130°)	June 24	< 100 m					L1(1), L1(1), L2(2)		
		> 100 m					L2(2)		
	May 28	< 100 m					L2(2), L1(2), L1(1)		
12 (110°)		> 100 m					L3		
	June 24	< 100 m					L1(1), L1(1), L2(2), L1(1)		
		> 100 m							
13 (185°)	May 28	< 100 m							
		> 100 m							
	June 24	< 100 m					L1(2), L1(1)		
		> 100 m					L1(1)		

Legend

- 1. Point count station locations are depicted on Figure 3. Numbers in the brackets indicate survey direction in degrees.
- 2. Nomenclature, common names and scientific names follow Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico (Crother *et al.*, (2008)).
- 3. Breeding Evidence Codes based on the Marsh Monitoring Program (BSC, 2009).
 - L1 = Level 1 = Individuals can be counted; calls not simultaneous;
 - L2 = Level 2 = Calls distinguishable; some calls simultaneous;
 - L3 = Level 3 = Full chorus; calls continuous and overlapping. A more accurate abundance estimate is not possible;
 - () = numbers in brackets following L1 or L2 refer to estimates of individuals present

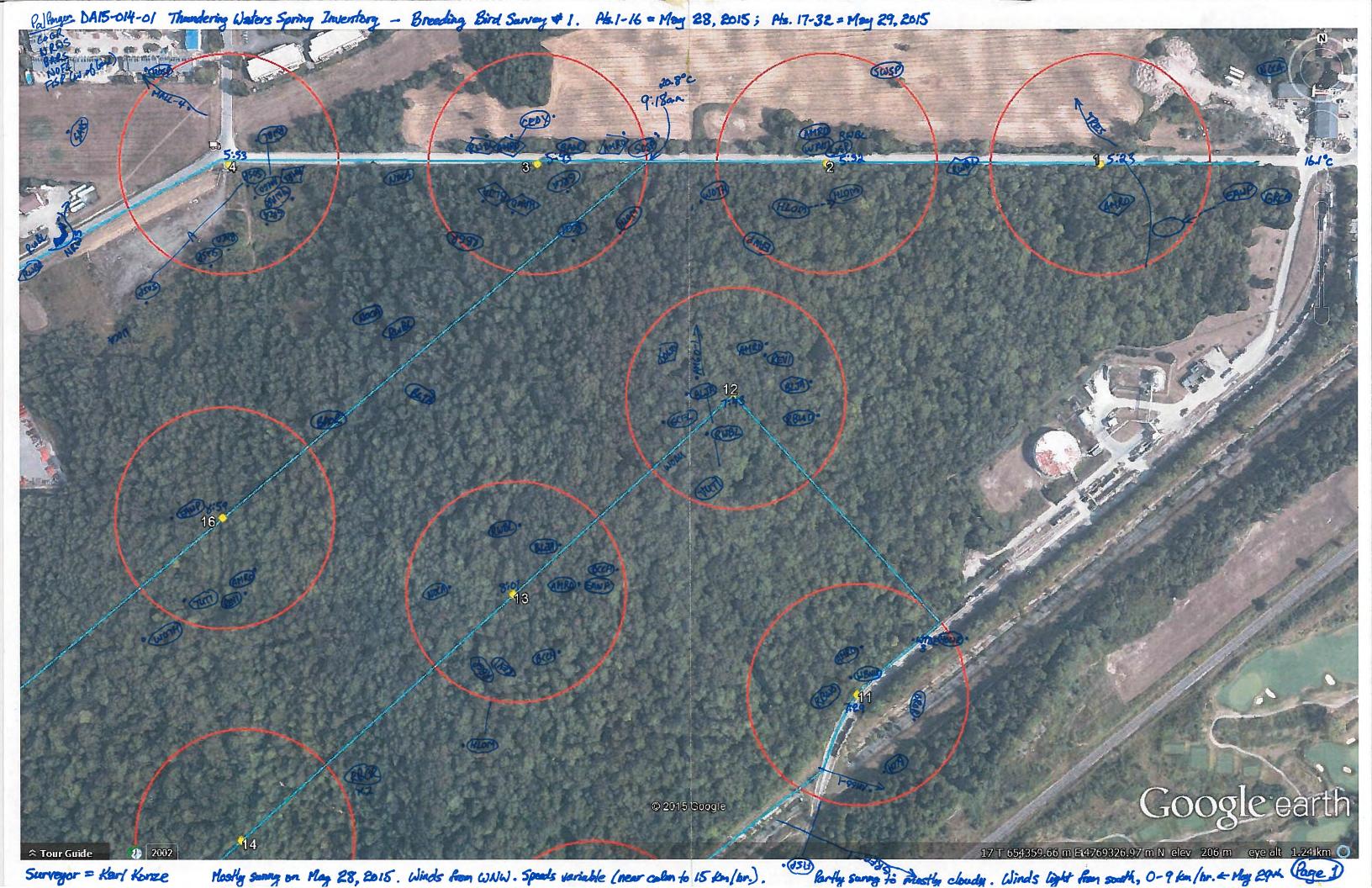
References

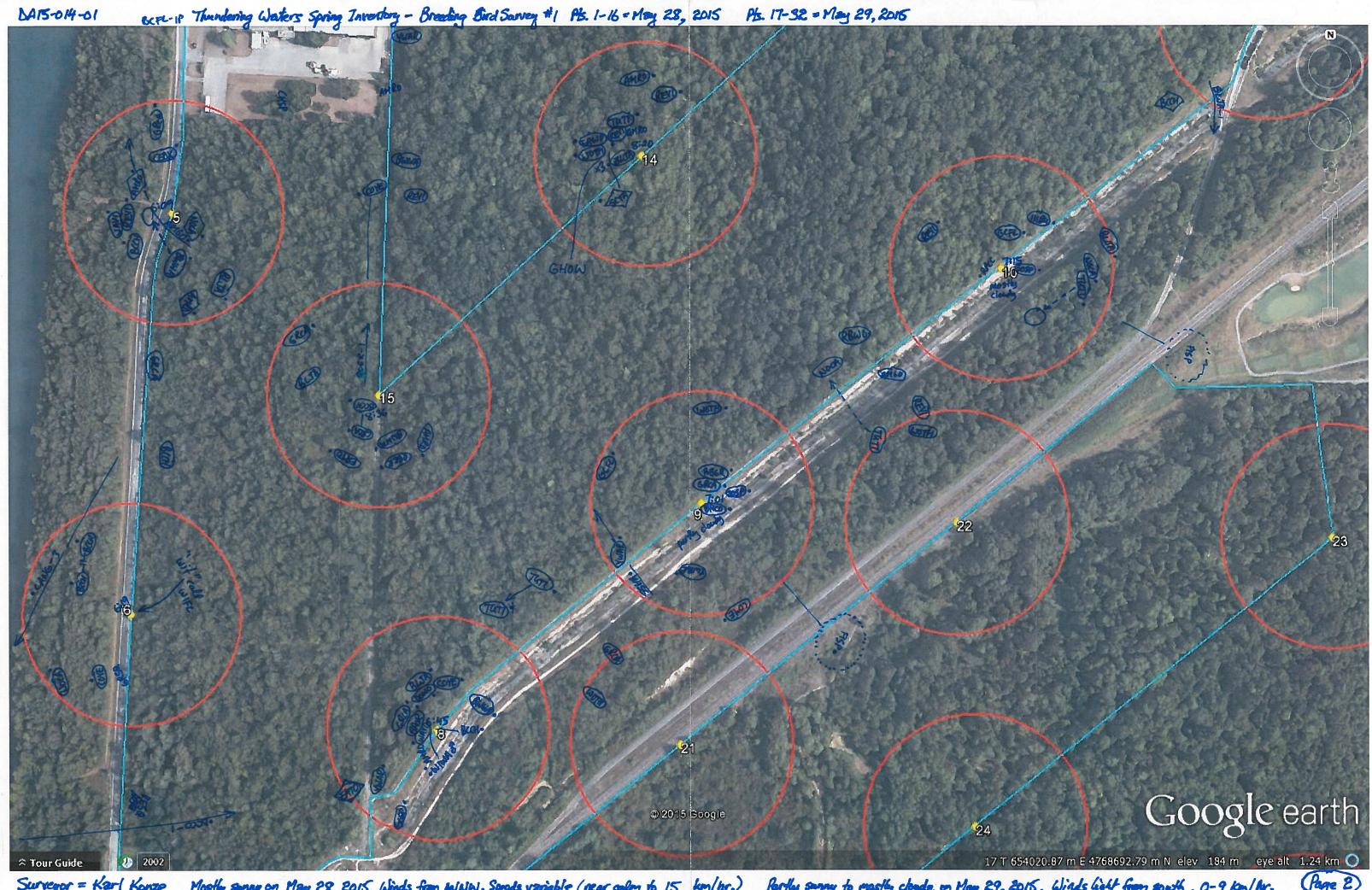
BSC (Bird Studies Canada). 2009. Marsh Monitoring Program Participant's Handbook for Surveying Amphibians. 2009 Edition. 13 pages. Published by Bird Studies Canada in cooperation with Environment Canada and the U.S. Environmental Protection Agency. February 2009.

Crother, B. I. (ed.). 2008. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, pp. 1–84. SSAR Herpetological Circular 37.

APPENDIX G: BREEDING BIRD SURVEY DATA

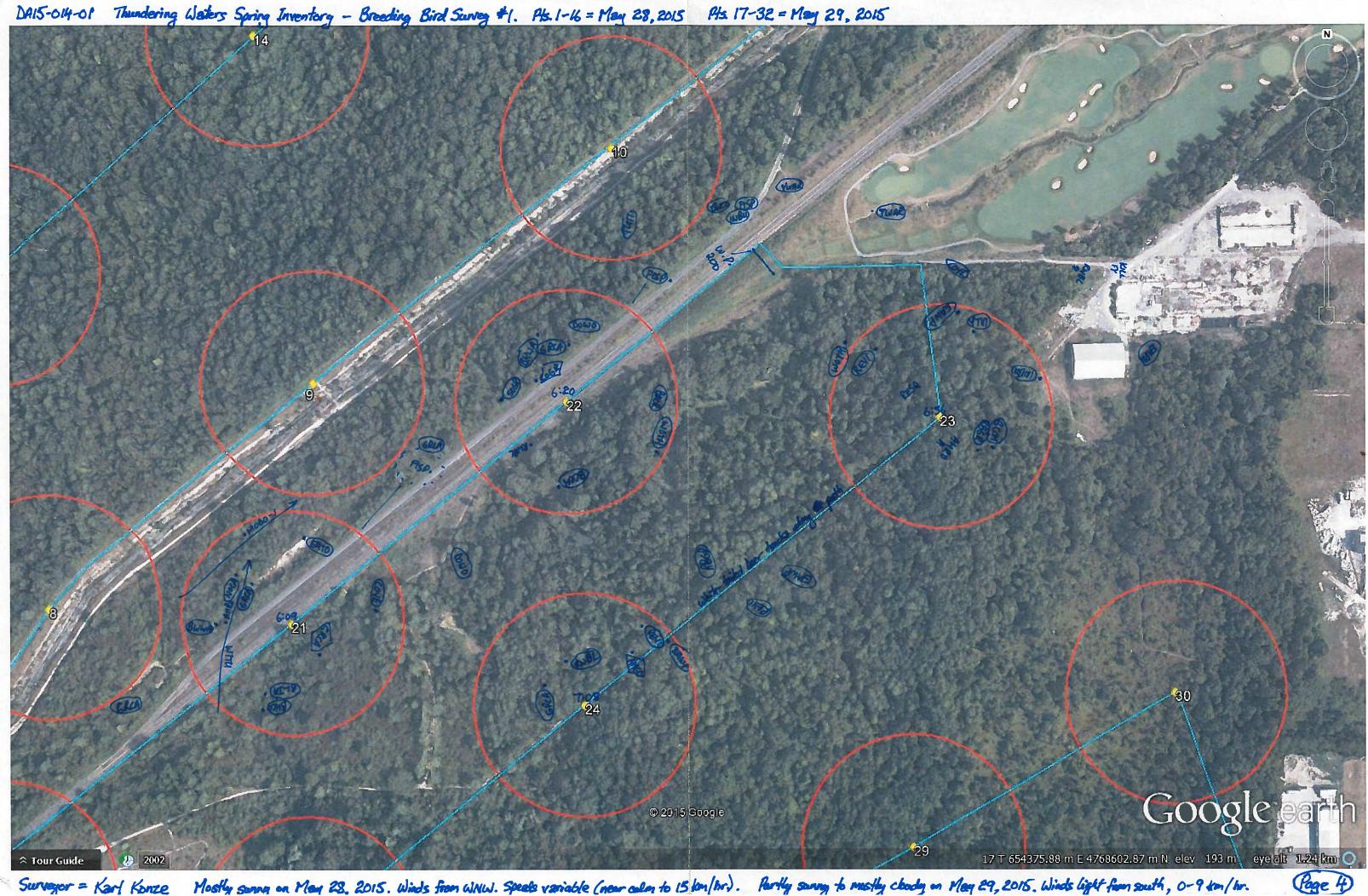






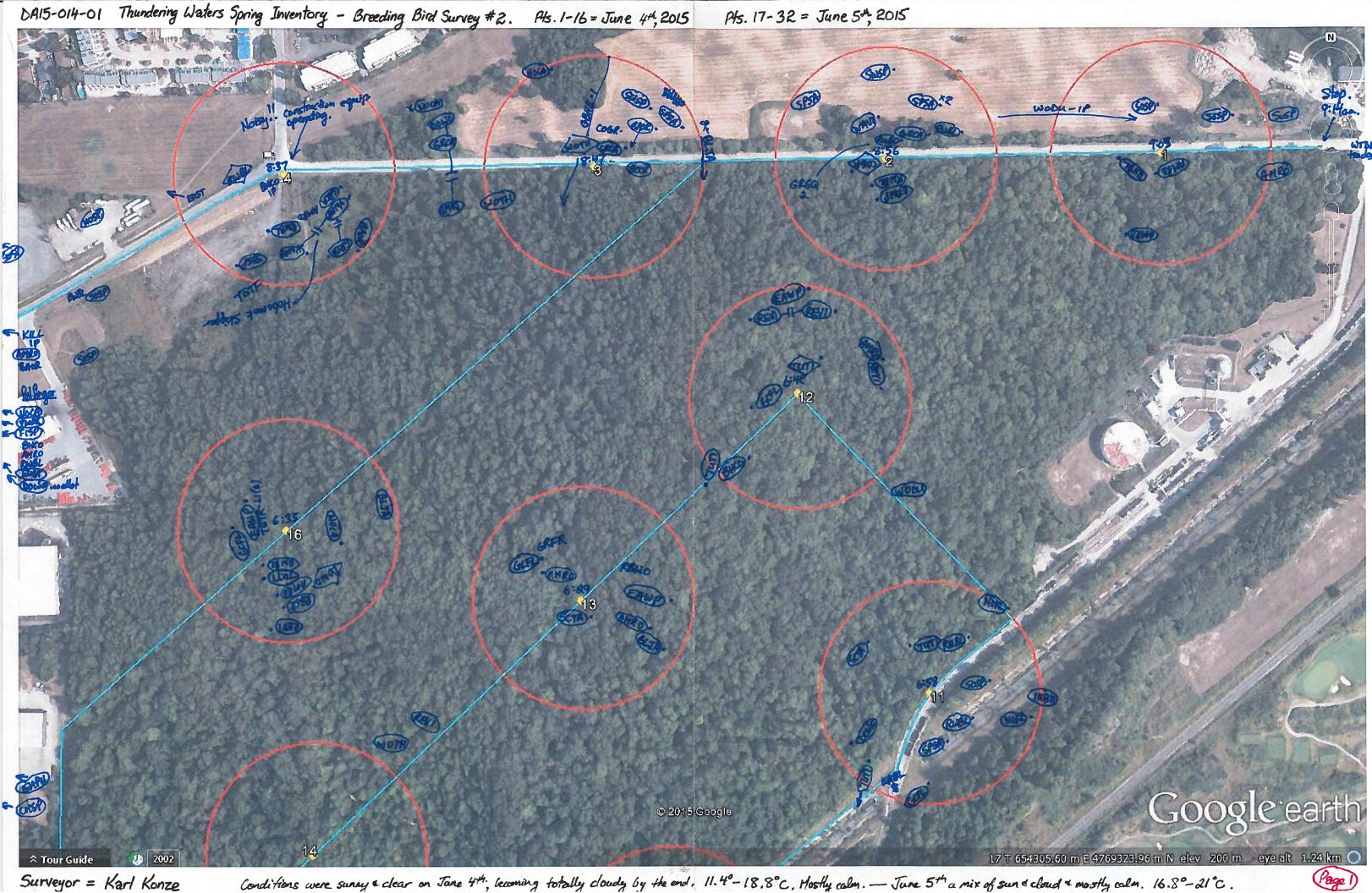
Surveyor = Karl Konze Mostly survey on May 28, 2015. Winds from NUNN. Speads variable (near colon to 15 km/hr.) Partly survey to mostly cloudy on May 29, 2015. Winds light from south, 0-9 km/hr.



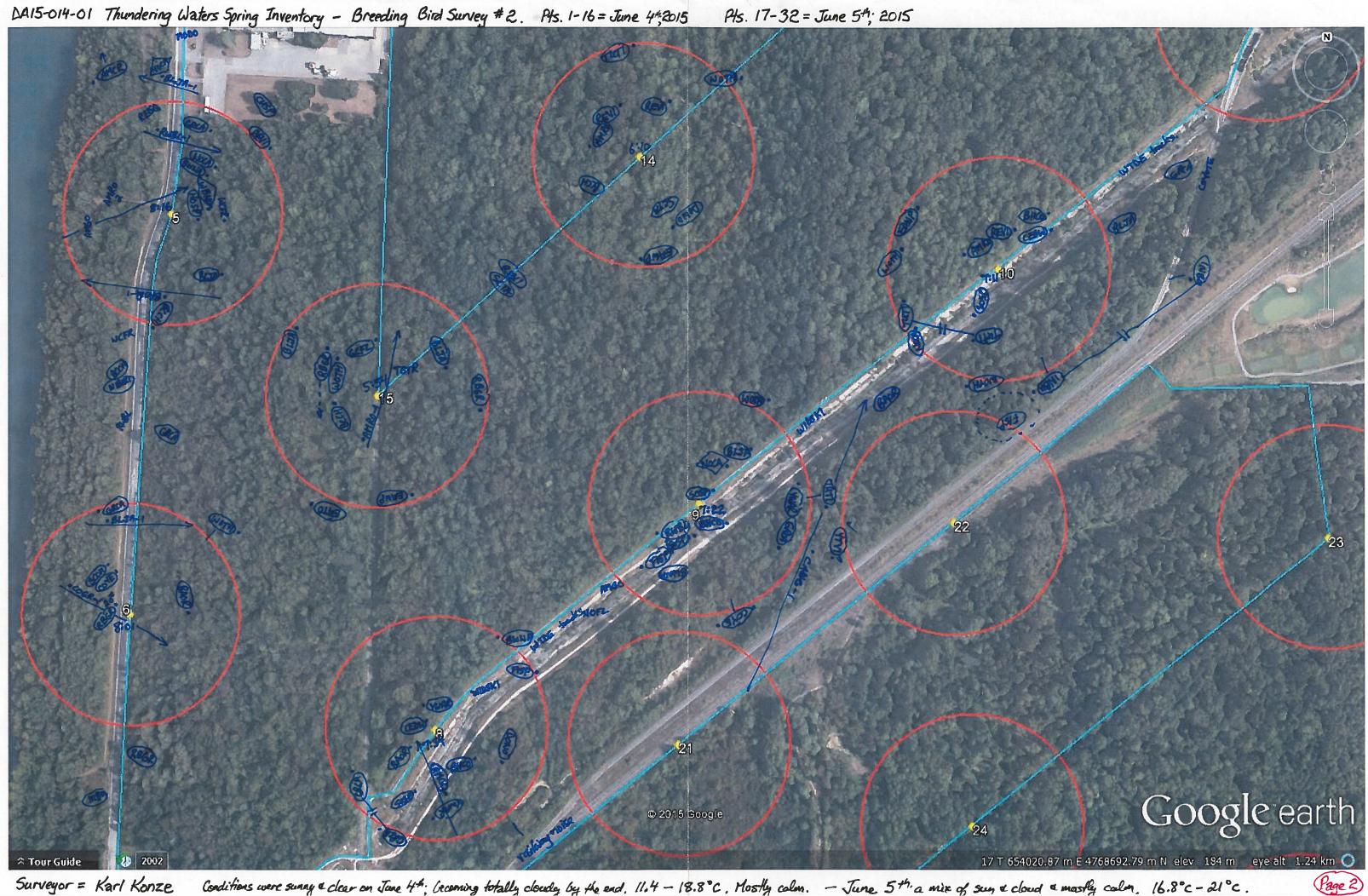


Surveyor = Karl Konze Mostly sunny on May 28. 2015. Winds from WiNW. Speeds variable (near culm to 15 km/hr.). Partly sunny to mostly cloudy on May 29, 2015. Winds light from south, 0-9 km/hr.

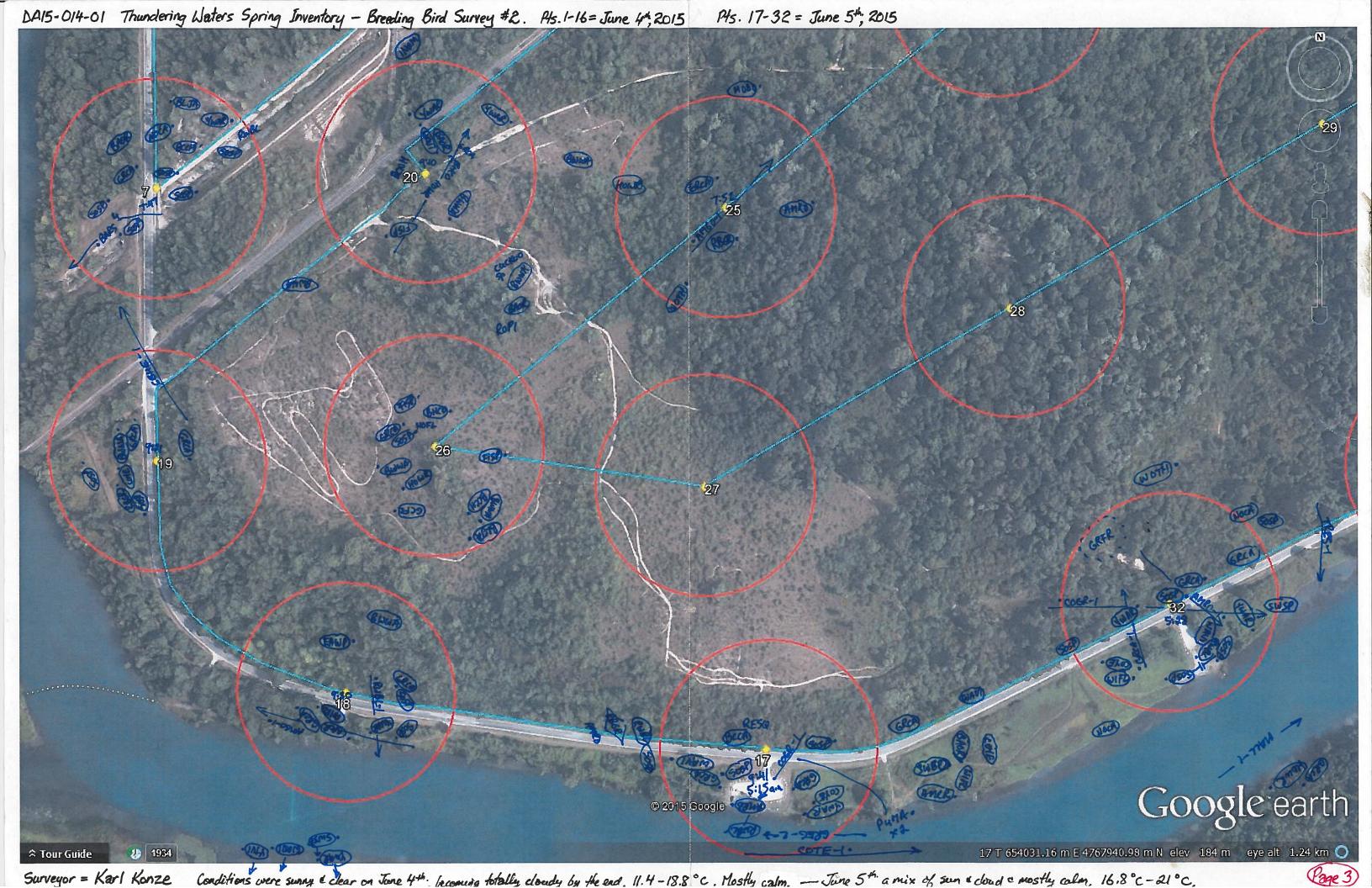


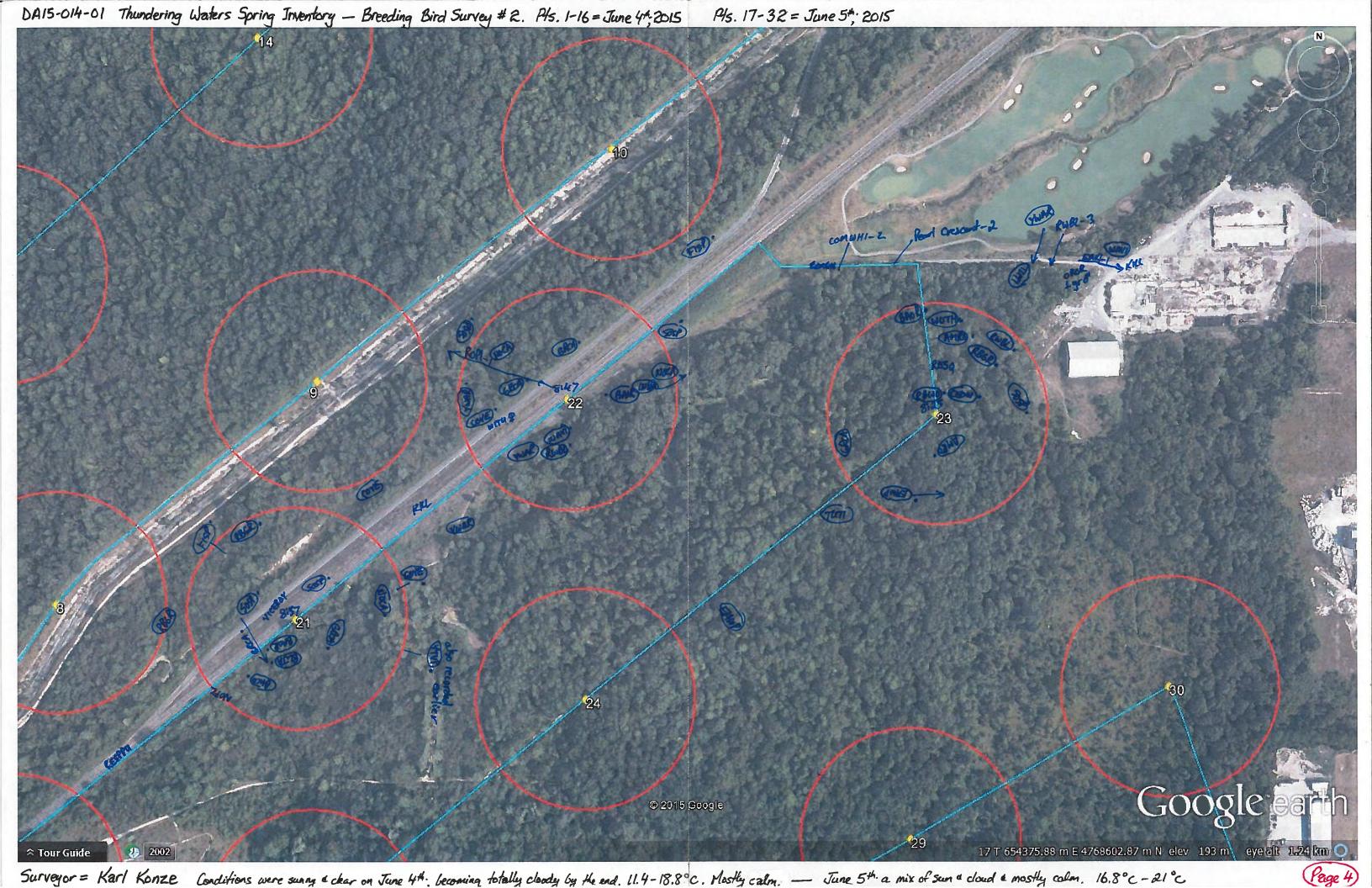


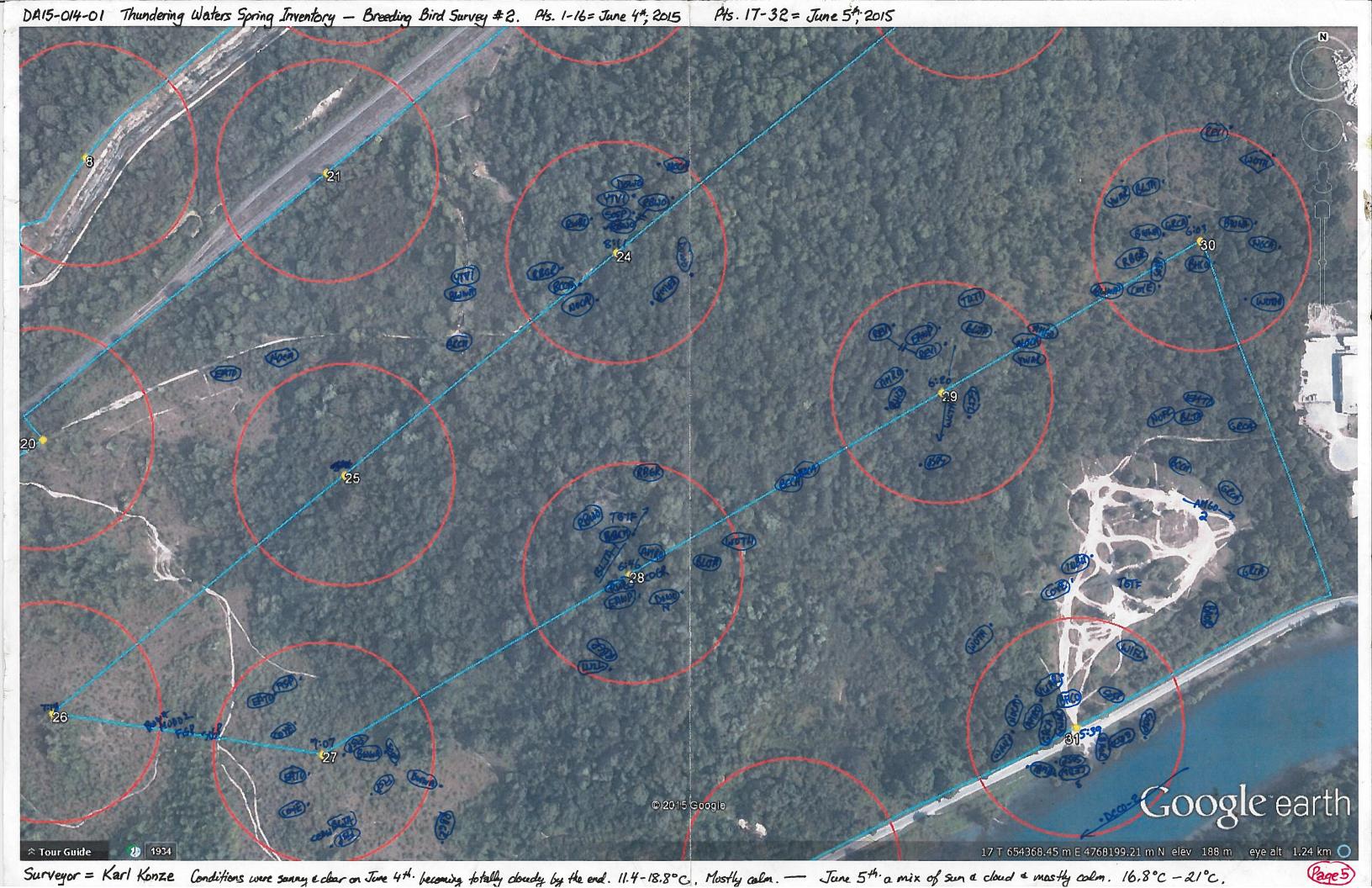
Conditions were surrey a clear on Jane 4th; lecoming totally cloudy by the end, 11.40-18.8°C, Mostly calm. - June 5th a mix of sun & cloud & mostly calm. 16.80-21°C. Surveyor = Karl Konze



Surveyor = Karl Konze Conditions were surry a clear on June 4th; becoming totally cloude by the end. 11.4 - 18.8°C. Mostly colon. - June 5th. a mix of sun a cloud a mostly colon. 16.8°C - 21°C.







APPENDIX H: PHOTO INVENTORY WATERCOURSE SURVEYS



Photograph 1. April 11, 2015. Shoreline view of Welland River. While there were shallow wet areas inland, there was no connection to the river.



Photograph 2. April 11, 2015. Shoreline view of Welland River.



Photograph 3. April 11, 2015. Watercourse 1, approximately midway between source and the Welland River.



Photograph 4. April 21, 2015. Emergent vegetation Immediately upstream of Dorchester Road culvert in Watercourse 1, near the Welland River.



Photograph 5. October 6, 2015. Mouth of Watercourse 1 showing emergent and submergent rooted aquatic vegetation. Welland River in background.



Photograph 6. April 12, 2015. Downstream view in the upstream end of Watercourse 2 within the subject property.



Photograph 7. April 12, 2015. Meandering clay/mud channel of Watercourse 2, approximately 592 m upstream from the Welland River.



Photograph 8. April 21, 2015. Watercourse 2 with coarse material mixed into the clay/mud substrate, approximately 113 m from the Welland River.



Photograph 9. April 12, 2015. Structure of Watercourse 3.



Photograph 10. October 6, 2015. Collapsed rock-filled gabions in sloped section of Watercourse 3, approximately 30 m upstream from mouth.

