# **Ernestown Wind Park**

Natural Heritage Site Investigation Report

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Prepared for: Ernestown Windpark LP

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### 1 Introduction

This report outlines the findings of the site investigation of natural heritage features, carried out at the location of the proposed Ernestown Wind Park. The site investigation was performed based on the specifications in Section 26 of Ontario Regulation 359/09 (henceforth referred to as 'the REA rules') (**Table 1.1**), which involved the confirmation and delineation of the boundaries of natural features within 120 m of the Project Location. In addition, the site investigation involved verifying the accuracy of the *Natural Heritage Records Review Report* (AET, 2012) and identifying any new features discovered while performing the site investigations. Background on the proposed Ernestown Wind Park project may be found in the accompanying *Natural Heritage Records Review Report* (AET, 2012). The findings of the Ernestown Wind Park records review are described in the accompanying *Natural Heritage Records Review Report* (AET, 2012) and are not repeated herein.

A site investigation undertaken according to the guidance outlined in the Ministry of Natural Resources' (MNR) Natural Heritage Assessment Guide (NHAG) (MNR, 2011) (**Table 1.1**) was completed and included an investigation of the air, land, and water within 120 m of the Project Location to:

- verify the accuracy of the records review that was performed according to Part IV, Section 25 of the REA rules and make any necessary corrections to the determinations documented in the *NH Records Review Report* (AET, 2012);
- determine whether any additional natural features exist within 120 m of the Project Location, other than those identified in the *NH Records Review Report* (AET, 2012);
- determine the boundaries of any natural feature located within 120 m of the Project Location (identified through the *NH Records Review Report* (AET, 2012) or during the site investigations); and
- determine the distance from the Project Location to the boundaries of any natural features.

The *Natural Heritage Site Investigation Report* is the second stage of the natural heritage assessment process and will be followed by an evaluation of significance of the natural features identified as a result of this site investigation. All natural heritage reports will be submitted to the MNR for review and comment. Information pertaining to Species at Risk [i.e. species listed as Endangered or Threatened on the Species at Risk in Ontario (SARO) List (Ontario Regulation 230/08) and that are protected under the Endangered Species Act, 2008] is not discussed in this report and will be handled through a separate process within the MNR.

Table 1-1: REA Reporting Requirements Summary - Natural Heritage Site Investigation

Required Documentation	Included 🗹	Location in Report
A summary of any corrections to the records review report and the determinations made as a result of conducting the site investigations	Ø	Section 5, Table 5-1
Information relating to each natural feature identified in the records review and identified during the site investigations, including the type, attributes, composition and function of the feature	Ø	Section 4.2
A map showing:  i. The boundaries located within 120 m of the project location, of any natural feature that was identified in the records review or the site investigations	Ø	Figures 4.2, 4.3, 4.4, 4.5 and 4.6
The location and type of each natural feature identified in relation to the project location	Ø	Figures 4.2, 4.3, 4.4, 4.5 and 4.6
iii. The distance from the project location to the boundaries determined under clause (c) of Section 26(1) of O. Reg. 359/09	Ø	Figures 4.2, 4.3, 4.4, 4.5 and 4.6
The dates and times of the beginning and completion of the site investigations	Ø	Section 3.4, Table 3-1
The duration of the site investigations	✓	Section 3.4, Table 3-1
The weather conditions during the site investigations	$\square$	Section 3.4, Table 3-1
A summary of methods used to make observations for the purpose of the site investigations	V	Section 3
The name and qualifications of any person conducting the site investigations	Ø	Table 3-1, Appendix A
Field notes kept by the person conducting the site investigations	☑	Appendix B

### 2 OVERVIEW

The *NH Records Review Report* (AET, 2012) carried out for the proposed Ernestown Wind Park identified fifteen natural heritage features within the project study area. These consisted of six wetlands and ten woodlands. No Life Science ANSIs, Earth Science ANSIs, provincial parks or conservation reserves were identified within 120 m of the Project Location.

In addition to the features that were identified at the records review stage, significant wildlife habitat that has the potential to occur within the Project Location based on the characteristics of Ecoregion 6E have been considered during the site investigation. **Table 2.1** summarizes the results of the records review.

**Table 2-1:** Summary of the results of the NH Records Review Report (AET, 2012)

Feature	Determination Made in the Natural Heritage Records		Distance Relative to the Project Location							
ID	Review Report	Within (0m)	Within 120 m	CI						
Natural Fe	Natural Features query for 10 x 10 km squares <b>18UQ60</b> and <b>18UP69</b>									
Provincia	Parks and Conservation Reserves									
Not applic	able – none occur within or near Project Location									
Provincia	Plan Areas									
Not applic	able – none occur within or near Project Location									
ANSI – Li	fe Science									
Not applic	able – none occur within or near Project Location									
ANSI – Ea	arth Science									
Not applic	able – none occur within or near Project Location									
Valleyland	is									
N/A	CCRNHS (CRCA, 2006); LIO mapping	No	No	0						
Wetlands										
WE02	SOLRIS (MNR, 2008), First Base Solutions (Spring, 2006), OBM (2011)	No	Yes							
WE04	SOLRIS (MNR, 2008), First Base Solutions (Spring, 2006), OBM (2011)	No	Yes							
WE05-2	SOLRIS (MNR, 2008), First Base Solutions (Spring, 2006), OBM (2011)	No	Yes	6						
WE05-4	SOLRIS (MNR, 2008), First Base Solutions (Spring, 2006), OBM (2011)	No	Yes	0						
WE05-6	SOLRIS (MNR, 2008), First Base Solutions (Spring, 2006), OBM (2011)	No	Yes							
WE05- 10	SOLRIS (MNR, 2008), First Base Solutions (Spring, 2006), OBM (2011)	No	Yes							
Woodland	ls									

Feature	Determination Made in the Natural Heritage Records		Distance Relative to the Project Location		
ID	Review Report	Within (0m)	Within 120 m	forward to SI	
WO03	The CCRNHS (CCRCA, 2006) identified a portion of this woodland unit as significant as it meets the criteria of providing hydrological functions.	No	Yes		
WO04	The CCRNHS (CCRCA, 2006) identified a portion of this woodland unit as significant as it meets the criteria of providing hydrological functions.	Yes	Yes		
WO05-1	The CCRNHS (CCRCA, 2006) identified a portion of this woodland as significant as it meets the criteria of providing hydrological functions.	No	Yes		
WO05-2	The CCRNHS (CCRCA, 2006) identified a portion of this woodland as significant as it meets the criteria of providing hydrological functions.	Yes	Yes		
WO05-3	CCRNHS (CCRCA, 2006) identified a portion of this woodland unit as significant as it meets the criteria of providing hydrological functions.	Yes	Yes	10	
WO05-4	CCRNHS (CCRCA, 2006) identified a portion of this woodland unit as significant as it meets the criteria of providing hydrological functions.	Yes	Yes	10	
WO05-5	The CCRNHS (CCRCA, 2006) identified a portion of this woodland as significant as it meets the criteria of providing hydrological functions.	Yes	Yes		
WO06	The CCRNHS (CCRCA, 2006) identified a portion of this woodland unit as significant as it meets the criteria of providing hydrological functions.	Yes	Yes		
WO07	The CCRNHS (CCRCA, 2006) identified a portion of this woodland unit as significant as it meets the criteria of providing hydrological functions.	Yes	Yes		
WO12	The CCRNHS (CCRCA, 2006) identified a portion of this woodland unit as significant as it meets the criteria of providing hydrological functions.	No	Yes		

#### **Habitats of Seasonal Concentration Areas of Animals**

Multiple habitats of seasonal concentrations of animals potentially occur within the study area. See *Natural Heritage Records Review Report* (AET, 2012)

### Rare Vegetation Communities or Specialized Habitat for Wildlife

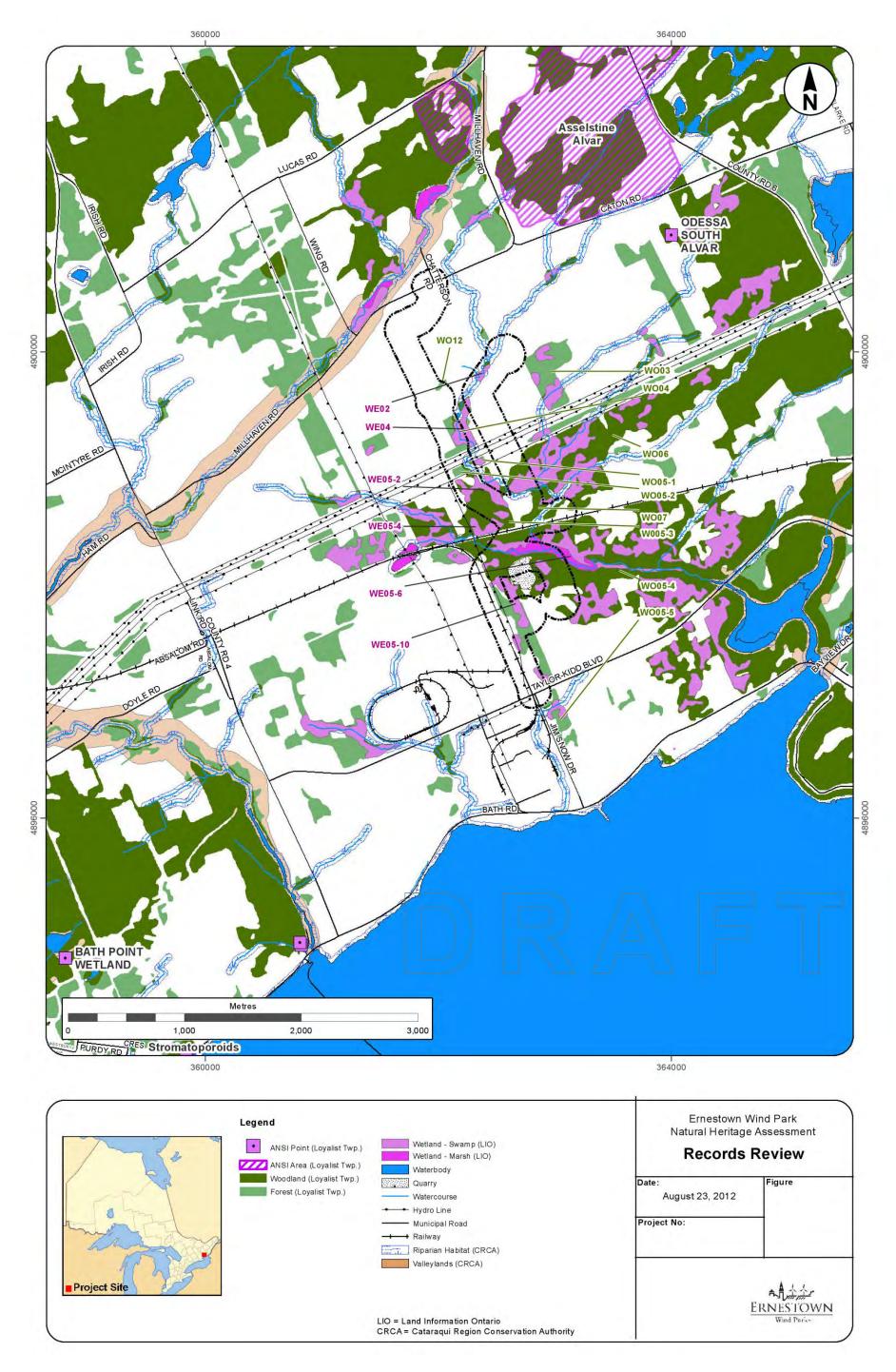
Multiple rare vegetation communities or specialized habitat for wildlife potentially occur within the study area. See *Natural Heritage Records Review Report* (AET, 2012)

#### **Habitat for Species of Conservation Concern**

Multiple habitats for species of conservation concern potentially occur within the study area See *Natural Heritage Records Review Report* (AET, 2012)

#### **Animal Movement Corridors**

None identified within or near the Project Location



**Figure 2-1:** Natural Heritage Records Review Report – Natural Features Map

### 3 METHODOLOGY

Site investigations were conducted by trained individuals (**Appendix A**) within the 120 m REA-mandated setback of the Project Location to confirm the presence and boundaries of features identified in the *Natural Heritage Records Review* (AET, 2012) and to identify and delineate any new features characteristic of Ecoregion 6E that were not previously identified. Natural features that fell within 120 m of the Project Location but extended beyond this boundary were delineated beyond the 120 m buffer based on air photo interpretation (i.e. not ground-truthed). The *Draft Ecological Land Classification* (*ELC*) for Southern Ontario (Lee et al., 2009) was used to classify all lands within 120 m of the Project Location.

To supplement field investigations, satellite imagery, Land Information Ontario (LIO) data layers (MNR, 2012) and Ontario Base Maps (OBM) covering the Project Location and the broader study area were used to identify potential candidate significant wildlife habitat (cSWH). Mapping was also used to supplement field work photos and information obtained on site and to define the geographic extent of features on the ground with greater accuracy.

Site investigators surveyed for the following natural features:

- Areas of Natural and Scientific Interest (earth science and life science)
- Valleylands
- Wetlands
- Woodlands
- Significant Wildlife Habitat, as defined in the Significant Wildlife Habitat Technical Guide (SWHTG, MNR, 2000) and Draft SWH Ecoregion 6E Criterion Schedule (MNR, 2012) including:
  - o Habitats of seasonal concentration areas of animals
  - o Rare vegetation communities or specialized habitat for wildlife
  - o Habitat of species of conservation concern
  - Animal movement corridors

Specific methodology for conducting wetland assessments [i.e. Ontario Wetland Evaluation System (OWES)], vegetation mapping [i.e. Ecological Land Classification (ELC)] and wildlife habitat surveys are provided in **Sections 3.1**, **3.2** and **3.3**, respectively. Technical advice from the *Significant Wildlife Habitat Technical Guide* (OMNR, 2000) and *Ecoregion 6E Criteria Schedules* (OMNR, 2012) was used to compile a complete list of significant wildlife habitat types that may be present within 120 m of the Project Location.

Full scope, time, and weather details for site investigations can be found in **Table 3.1**. Note that the field visits in **Table 3.1** are not numbered sequentially because some field visits were conducted for the purpose of Evaluation of Significance. Documentation of these evaluations can be found in the accompanying *Natural Heritage Evaluation of Significance Report*.

### 3.1 Ontario Wetland Evaluations System (OWES)

The Ontario Wetland Evaluation System (OWES) was used to classify and delineate all wetland features within the project. Desktop reviews of aerial imagery and other mapping sources were reviewed prior to the site investigation to determine the general ecological make-up of the area. OWES-certified biologists undertook the surveys of all wetlands and verified and delineated their boundaries based on OWES methodology. Surveys were conducted between June and July 2012 in tandem with ELC surveys to optimize ability to identify a diversity of emergent and flowering vegetation. ELC was used to inform the classification of wetlands that were identified according to the OWES.

### 3.2 Ecological Land Classification (ELC)

The *ELC System for Southern Ontario* (Lee et al., 2009) was used to classify and delineate all terrestrial features within the project. Desktop reviews of aerial imagery and other mapping sources were reviewed prior to the site investigation to determine the general ecological make-up of the area, and to assess potential ELC communities and areas of focus for field surveys. ELC surveys involved analysis of stand composition (investigation of canopy, sub-canopy, understory and ground cover vegetation), soil composition, topographical composition, and faunal composition. Surveys were conducted in June and July 2012 to optimize the diversity of emergent and flowering vegetation, an important component in assembling comprehensive vegetation inventories and assuring communities are accurately classified. Detailed polygon descriptions can be found in **Appendix C**.

### 3.3 Candidate Significant Wildlife Habitat (cSWH) Assessments

Wildlife habitat surveys were based on criteria outlined in the *Draft SWH Ecoregion 6E Criterion Schedule* (MNR, 2012), *Significant Wildlife Habitat Technical Guide* (OMNR, 2000), associated appendices and the *Wildlife Monitoring Programs and Inventory Techniques for Ontario* (Konze and McLaren, 1997). To supplement field investigations, staff identified potential wildlife habitat from satellite imagery and OBM maps (OBM, 2002) overlapping with the Project Location. Coordinates for targeted locations were then uploaded to GPS units for use in the field. These areas were primarily targeted but additional habitat was searched for based on ELC polygons, elevation and water bodies.

Field surveying methods were based on an in-field assessment of observer visibility dependent on terrain and forest cover/type. Based on field experience and at the field naturalist's discretion, surveying was performed by walking slightly adjacent to proposed infrastructure routes while observing all areas from the project infrastructure and within the extent of REA setbacks. Habitats that fell within 120 m of the Project Location but extended beyond this boundary were fully delineated. If a natural feature was identified, the observer would perform a closer inspection, document form and function, mark the feature with a GPS waypoint and take photographs. Once completed, the original route was resumed. Delineations of boundaries were mostly completed on-site in full unless the terrain was impassable and could not be safely negotiated. This was done by traveling along a natural feature and adding additional waypoints. Where terrain was impassable, these sections of the boundaries were completed by applying judgment based on topography and remote field observation by binoculars or other visual aids. Field investigations were conducted primarily during the summer months (June-July). Incidental wildlife observations were recorded during the site investigations and used to help determine the presence/absence

of cSWH. A general search for wildlife species was also conducted to determine the presence/absence of species of conservation concern within 120 m of the Project Location.

### 3.4 Site Investigation Details

A summary of the site investigations completed for the Ernestown Wind Park Project, including the purpose and methods used to verify the presence/absence of each natural feature identified in the *Natural Heritage Records Review Report* (AET, 2012) is provided below (**Table 3.1**). Details on the dates, time, duration, weather conditions during each site visit, as well as the names of each of the investigators is provided.

The qualifications of each of the investigators are provided in **Appendix A**. The field notes kept by each of the investigators are provided in **Appendix B**.

Table 3-1: Summary of site visits

Purpose / Methods	Date(s)	Start/ End Time	Duration (Hours)	Weather Conditions	Site Investigator(s), Affiliation; Qualifications
Valleylands	06-08-2012	0745- 1915	11.5	CC (tenths): 7 Temp (°C): 16 Precipitation (mm): 0 Beaufort Wind Scale: 1	Dave Jolly, M.K. Ince & Associates (Appendix A) Joel Jamieson, M.K. Ince & Associates (Appendix A)
	05-01-2012	1220- 1720	5	CC (tenths): 10 Temp (°C): 16 Precipitation (mm): 0 Beaufort Wind Scale: 1	Dave Jolly, M.K. Ince & Associates (Appendix A)
Wetlands –	06-07-2012	1245- 2045	8	CC (tenths): 2-10 Temp (°C): 14-23 Precipitation (mm): 0 Beaufort Wind Scale: 2-4	Dave Jolly, M.K. Ince & Associates (Appendix A)
Field verification, wetland delineations (OWES	06-08-2012	0745- 1915	11.5	CC (tenths): 7 Temp (°C): 16 Precipitation (mm): 0 Beaufort Wind Scale: 1	Dave Jolly, M.K. Ince & Associates (Appendix A) Joel Jamieson, M.K. Ince & Associates (Appendix A)
Protocol)	06-09-2012	0900- 2130	12	CC (tenths): 10 Temp (°C): 20 Precipitation (mm): 0 Beaufort Wind Scale: 1	Dave Jolly, M.K. Ince & Associates (Appendix A) Joel Jamieson, M.K. Ince & Associates (Appendix A)
	06-10-2012	0930- 1945	10.25	CC (tenths): 1-3 Temp (°C): 25-26 Precipitation (mm): 0 Beaufort Wind Scale: 0-2	Dave Jolly, M.K. Ince & Associates (Appendix A) Joel Jamieson, M.K. Ince & Associates (Appendix A)

Purpose / Methods	Date(s)	Start/ End Time	Duration (Hours)	Weather Conditions	Site Investigator(s), Affiliation; Qualifications
	07-15-2012	1000- 1830	8.5	CC (tenths): 10 Temp (°C): 27 Precipitation (mm): <1 Beaufort Wind Scale: 2-3	Martine Esraelian, Hatch Ltd. (Appendix A)
	07-16-2012	0930- 1030; 1500- 1800	4.0	CC (tenths): 2 Temp (°C): 32 Precipitation (mm): 0 Beaufort Wind Scale: 1-2	Martine Esraelian, Hatch Ltd. (Appendix A)
	06-07-2012	1245- 2045	8	CC (tenths): 2-10 Temp (°C): 14-23 Precipitation (mm): 0 Beaufort Wind Scale: 2-4	Dave Jolly, M.K. Ince & Associates (Appendix A)
Woodlands/ Wildlife Habitat – Field	06-08-2012	0745- 1915	11.5	CC (tenths): 7 Temp (°C): 16 Precipitation (mm): 0 Beaufort Wind Scale: 1	Dave Jolly, M.K. Ince & Associates (Appendix A) Joel Jamieson, M.K. Ince & Associates (Appendix A)
verification, vegetation community mapping, general	06-09-2012	0900- 2130	12	CC (tenths): 10 Temp (°C): 20 Precipitation (mm): 0 Beaufort Wind Scale: 1	Dave Jolly, M.K. Ince & Associates (Appendix A) Joel Jamieson, M.K. Ince & Associates (Appendix A)
wildlife searches (ELC Protocol, Significant	06-10-2012	0930- 1945	10.25	CC (tenths): 1-3 Temp (°C): 25-26 Precipitation (mm): 0 Beaufort Wind Scale: 0-2	Dave Jolly, M.K. Ince & Associates (Appendix A) Joel Jamieson, M.K. Ince & Associate (Appendix A)
Wildlife Habitat Technical Guide / Draft	07-10-2012	0600- 1730	11.5	CC (tenths): 0 Temp (°C): 17-27 Precipitation (mm): 0 Beaufort Wind Scale: 0-2	Rob Tymstra, M.K. Ince & Associates (Appendix A)
Ecoregion Criteria Schedules for 6E)	07-15-2012	1000- 1830	8.5	CC (tenths): 10 Temp (°C): 27 Precipitation (mm): <1 Beaufort Wind Scale: 2-3	Martine Esraelian, Hatch Ltd. (Appendix A)
	07-16-2012	0930- 1030; 1500- 1800	4	CC (tenths): 2 Temp (°C): 32 Precipitation (mm): 0 Beaufort Wind Scale: 1-2	Martine Esraelian, Hatch Ltd. (Appendix A)

### 4 RESULTS

All natural heritage features and candidate significant wildlife habitats identified during the site investigations are described in detail in the following sub-sections. All boundaries identified on the maps contained in this section were confirmed during the site investigations.

### 4.1 Ecological Land Classification

The existing conditions on and within 120 m of the Project Location were characterized following the *ELC System for Southern Ontario* (Lee *et al.*, 2009). The vegetation communities identified during the site investigations were used to determine the presence/absence of natural features within 120 m of the Project Location. A list of the vegetation communities are provided in **Table 4.1** and shown on **Figure 4-1**. The completed ELC data cards are provided in **Appendix C**. The natural feature types identified in the table below are discussed further in the subsequent sections.

**Table 4-1:** ELC Communities Identified within 120 m of the Project Location

ELC Code	ELC Name	ELC ID	Natural Feature Type
CVC_1	Business Sector	85, 86	N/A
CVC_4	Extraction	69	N/A
CVR_1	Low Density Residential	2, 5, 7, 8, 9	N/A
FOCM1-2	Dry – Fresh White Pine – Red Pine Coniferous Forest Type	63	Woodland (WO05-4); cSWH
FOCM2-1	Dry – Fresh Red Cedar Coniferous Forest Type	64, 71, 72	Woodland (WO05-4); cSWH
FODM2-3	Dry – Fresh Hickory Deciduous Forest Type	39	Woodland (WO06); cSWH
FODM6-1	Fresh – Moist Sugar Maple – Lowland Ash Deciduous Forest Type	37	Woodland (WO04); cSWH
FODM6-4	Fresh – Moist Sugar Maple – White Elm Deciduous Forest Type	26	cSWH (WO03)
EODMZ 1	Fresh – Moist White Elm Lowland	68	Woodland (WO05-4); cSWH
FODM7-1	Deciduous Forest Type	84, 89	Woodland (WO05-5); cSWH
EODMA A	Fresh – Moist Green Ash - Hardwood	66, 74	Woodland (WO05-4); cSWH
FODM7-2	Lowland Deciduous Forest Type	82	Woodland (WO05-5);
FODM7-6	Fresh - Moist Black Ash - Hardwood Lowland Deciduous Forest Type	35	Woodland (WO04); cSWH
FODM9-4	Fresh – Moist Shagbark Hickory Deciduous Forest Type	41, 47, 57	Woodland (WO06); cSWH
		11	Wetland (WE08); cSWH
MANANI 2	Reed-canary Grass Graminoid Mineral	22	Wetland (WE02); cSWH
MAMM1-3	Meadow Marsh Type	38, 44, 50	Wetland (WE05-2); cSWH
	J1	55	Wetland (WE09); cSWH
MASM1-1	Cattail Minaral Challess March Torre	32	Wetland (WE04); cSWH
IVIASIVI1-I	Cattail Mineral Shallow Marsh Type	59	Wetland (WE05-15); cSWH

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ELC Code	ELC Name	ELC ID	Natural Feature Type
		65	Wetland (WE05-6); cSWH
		70	Wetland (WE05-10); cSWH
		77	Wetland (WE05-16); cSWH
MASO1-1	Cattail Organic Shallow Marsh Type	30	Wetland (WE10); cSWH
MASO1-4	Reed Canary Grass Organic Shallow Marsh Type	29	Wetland (WE10); cSWH
МЕММ3	Dry - Fresh Mixed Meadow Ecosite	1, 4 14, 16, 17, 21, 25, 40, 42, 43, 45, 48, 49, 51, 52, 53, 67, 80, 88	cSWH
OAGM1	Annual Row Crops	3,6, 15, 27, 31, 58, 81, 83	N/A
040	Onen Aquetia	33	Wetland (WE04); cSWH
OAO	Open Aquatic	61	Wetland (WE05-4); cSWH
RBOA1-2	Dry Annual Open Alvar Pavement Type	20	cSWH
SAS1	Submerged Shallow Aquatic Ecosite	10	Wetland (WE08); cSWH
SASI		12	Wetland (WE02); cSWH
SWDM2-1	Black Ash Mineral Deciduous Swamp Type	36	Woodland (WO04); Wetland (WE04); cSWH
CWDM2 2	Green Ash Mineral Deciduous Swamp	23	Wetland (WE02); cSWH
SWDM2-2	Туре	60	Woodland (WO06); Wetland (WE05-4); cSWH
SWDO1-2	Green Ash Organic Deciduous Swamp Type	28	Wetland (WE10); cSWH
THDM2-4	Gray Dogwood Deciduous Shrub Thicket Type	34, 76, 78, 87	cSWH
THDM4-1	Native Deciduous Regeneration Thicket Type	19	cSWH
		46, 54	Woodland (WO06); cSWH
WOCM1-1	Dry - Fresh Red Cedar Coniferous Woodland Type	56	Woodland (WO06); cSWH
	codiana Type	62, 73, 75, 79	Woodland (WO05-4); cSWH

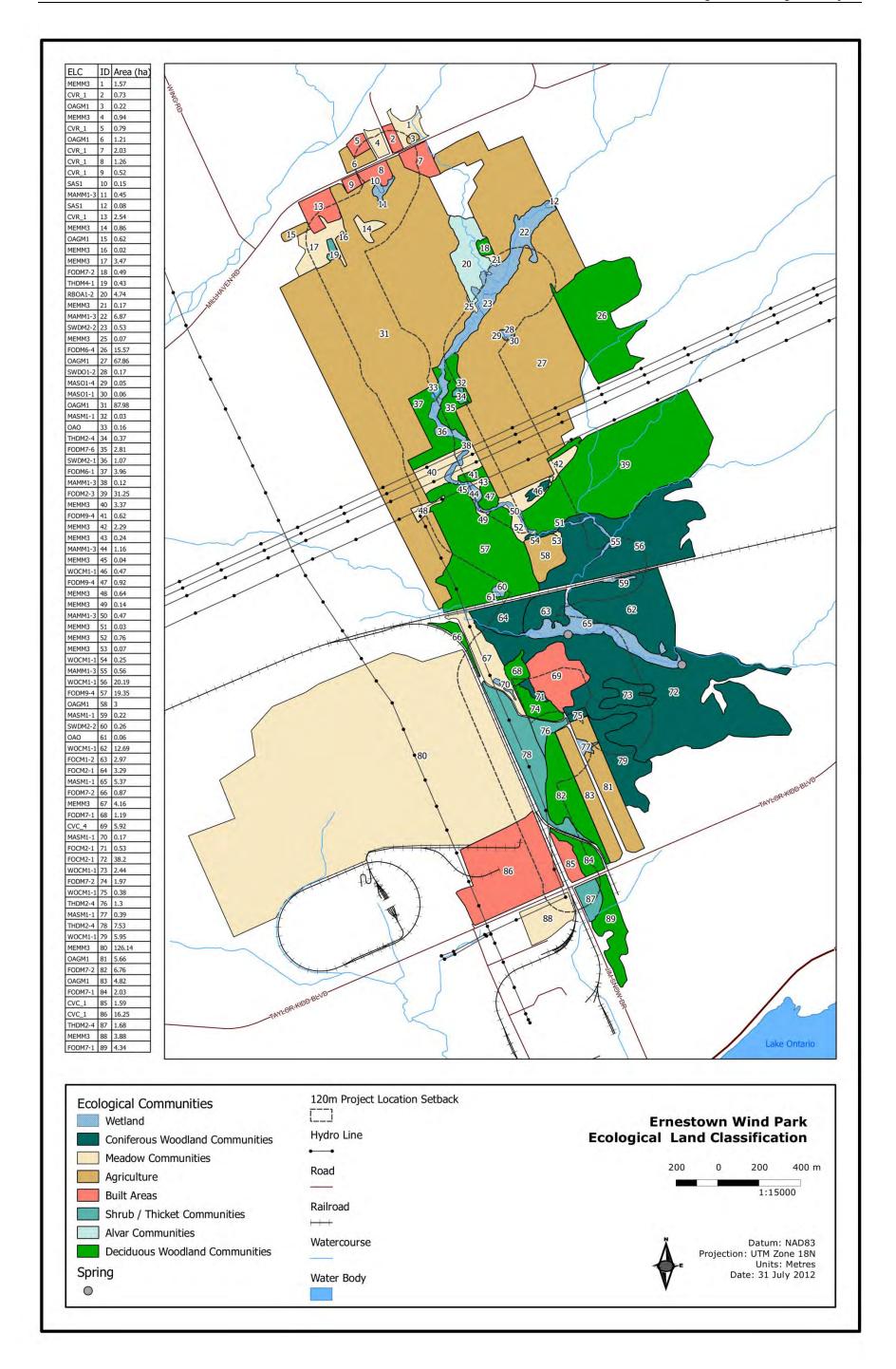


Figure 4-1: Ecological Land Classification Map

#### 4.2 Natural Features

There are five main types of natural features recognized in the REA rules. These include: Areas of Natural and Scientific Interest (ANSI) (earth science and life science), valleylands, wetlands (coastal, northern and southern), woodlands and wildlife habitat. The *Natural Heritage Records Review Report* (AET, 2012) determined that there are wetlands (southern), woodlands and potential wildlife habitat within 120 m of the Project Location. There were no ANSIs (earth science or life science) or valleylands identified on or within 120 m of the Project Location based on the information sources reviewed (AET, 2012).

As required under the REA rules, the presence/absence of natural features identified in the *Natural Heritage Records Review Report* (AET, 2012) were verified during the site investigations. The results of the site investigations are provided in the following sections and include information on the type, attributes, composition, function and boundaries of each natural feature confirmed to be present on and within 120 m of the Project Location.

#### 4.2.1 Areas of Natural and Scientific Interest

Earth science and life science ANSIs are assessed by the MNR as provincially, regionally or locally significant. Provincially significant ANSIs that are confirmed by the MNR are protected under the REA rules. Applicants of an REA are required to verify the boundaries of all ANSIs identified through the records review, however, are not required to identify additional ANSIs during the site investigation (MNR, 2011). The information sources reviewed in the *Natural Heritage Assessment Records Review Report* (AET, 2012) did not identify any provincially, regionally or locally significant earth science or life science ANSIs within 120 m of the Project Location. As a result, there are no boundaries that need to be verified through a site investigation. Therefore, ANSIs will not be carried forward to the *Natural Heritage Evaluation of Significance Report*. Also, there are no corrections required to the *Natural Heritage Records Review Report* (AET, 2012) with respect to this natural feature type.

### 4.2.2 Valleylands

The boundaries, presence and absence of valleylands identified through the records review must be verified during the site investigation (MNR, 2011). The *Natural Heritage Assessment Records Review Report* (AET, 2102) did not identify valleylands within 120 m of the Project Location. This information was verified during the site investigations. As a result, valleylands will not be carried forward to the *Natural Heritage Evaluation of Significance Report*. Also, there are no corrections required to the *Natural Heritage Records Review Report* (AET, 2012) with respect to this natural feature.

#### 4.2.3 Wetlands

The *Natural Heritage Records Review Report* (AET, 2012) identified six wetlands within 120 m of the Project Location. The presence/absence of these wetlands, including additional wetlands identified during the site investigation as well as information on the type, attributes, composition and function of each wetland confirmed to be present within 120 m of the Project Location, is provided in **Table 4.2**. A map showing the confirmed wetlands is presented in **Figure 4-2**.

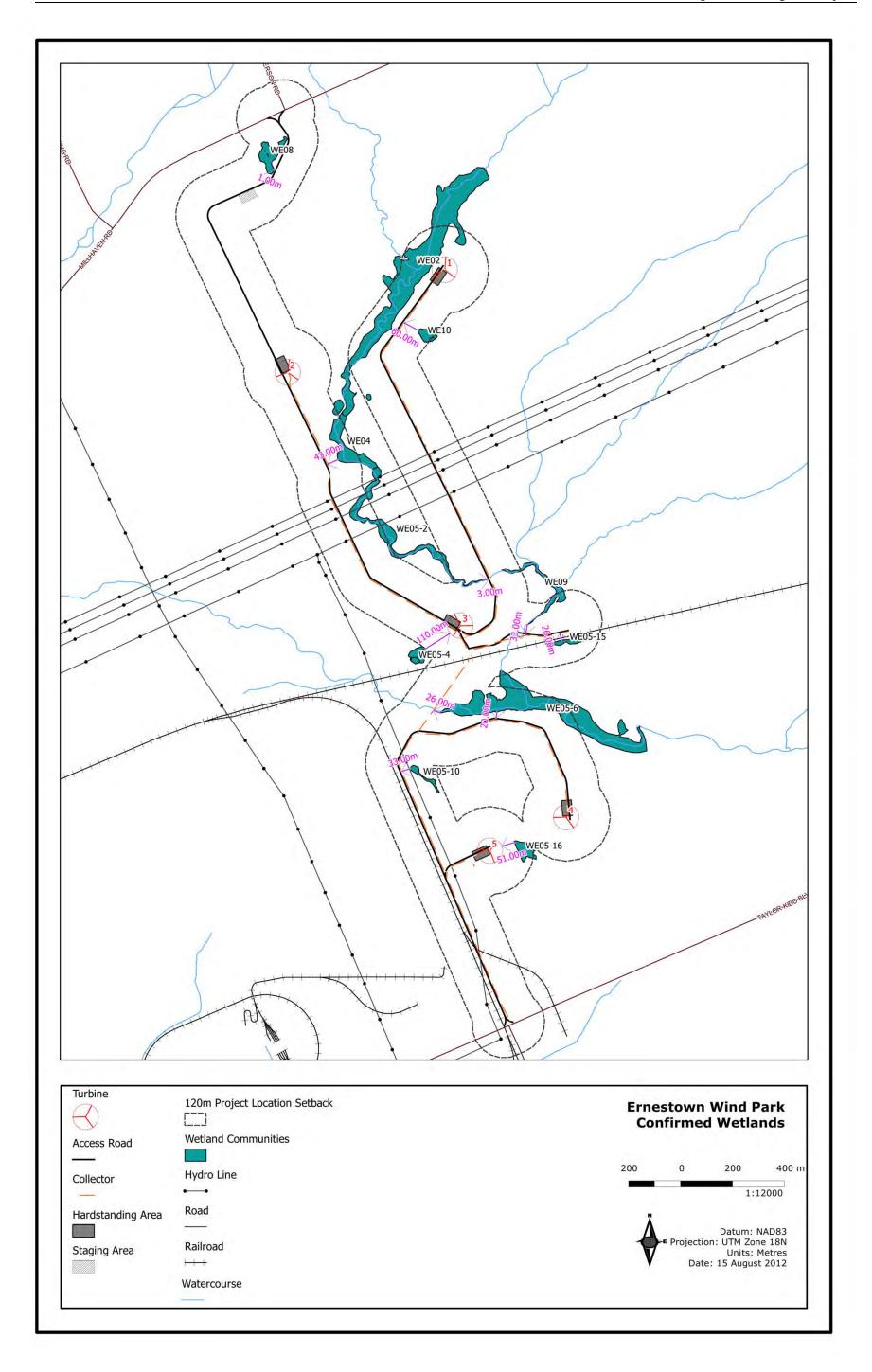


Figure 4-2: Wetlands verified during the site investigation

 Table 4-2: Wetlands verified during the site investigation

				Determination Made During the Site	Investigations		Carried
Feature ID	Feature Present (Y/N)	Project Components / Minimum Distance to Project Location	Size	Attributes	Composition and ELC Communities/ID (Figure 4.1, Section 4.1)	*Functions	Forward to the EOS? (Y/N)
Wetlands Ide	ntified in th	ne <i>Natural Heritage Rec</i>	ords Review	Report		1	
WE02	Y	Hardstand (21 m); Access Road (22 m); Collector (22 m); Bladeswept area (5m)	7.5 ha	Reed-canary grass meadow marsh and green ash swamp along an intermittent watercourse; hydrologically connected to the Parrotts Bay Provincially Significant Wetland (PSW).	MAMM1-3, SWDM2-2, SAS1 (ELC IDs: 22, 23 & 12 respectively)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005) absorbing of spring runoff from the agricultural fields.  cSWH (Section 4.2.5) – ABH02; MBBA02; WNA01	Y
WE04	Y	Collector (43 m); Access Road (45 m)	1.3 ha	Black ash swamp, cattail marsh and open water communities adjacent to and alongside an intermittent watercourse; portions of this wetland unit are hydrologically connected to the Parrotts Bay PSW.	SWDM2-1, OAO, and MASM1-1 (ELC IDs: 32, 33 & 36 respectively)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). Open aquatic community is poor quality (surface covered with algae).  cSWH (Section 4.2.5) – ABH02; WNA01	Y
WE05-2	Y	Access Road (3 m); Collector (11 m); Bladeswept area (110m)	1.8 ha	Reed-canary grass meadow marsh along an intermittent watercourse; hydrologically connected to the Parrotts Bay PSW.	MAMM1-3 (ELC IDs: 38,44 & 50)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005).  cSWH (Section 4.2.5) – ABH02; WNA01	Y
WE05-4	Y	Hardstand (106 m); Bladeswept area (110m)	0.32 ha	Isolated green ash swamp with an open water community; surrounded by a shagbark hickory deciduous woodland	SWDM2-2, and OAO (ELC IDs: 60 & 61 respectively)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). High flood retention and attenuation for surrounding wetlands.  cSWH (Section 4.2.5) – ABH02; LMSA02	Y
WE05-6	Y	Access Road (20 m); Collector (26 m)	5.4 ha	Cattail marsh along a permanent watercourse; hydrologically connected to the Parrotts Bay PSW.	MASM1-1 (ELC ID: 65)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005).  cSWH (Section 4.2.5) – ABH04; WNA02; SPO1 & SPO2	Y
WE05-10	Y	Collector (33 m); Access Road (35 m)	0.17 ha	Isolated cattail marsh; disturbed wetland surrounded by mixed meadow and gray dogwood shrub thicket communities.	MASM1-1 (ELC ID: 70)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). High flood retention and attenuation for surrounding wetlands. <b>cSWH</b> (Section 4.2.5) – ABH04	Y
Additional W	etlands Not	t Identified in the <i>Natur</i>	ral Heritage	Records Review Report		<u>, — — — — — — — — — — — — — — — — — — —</u>	
WE08	Y	Access Road (1 m); Staging Area (84 m)	0.60 ha	Isolated reed-canary grass meadow marsh surrounding a submerged shallow aquatic ecosites with permanent water (i.e., water present year-round).	SAS1 and MAMM1-3 (ELC IDs: 10 & 11 respectively)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). High flood retention and attenuation for surrounding wetlands.	Y

	Determination Made During the Site Investigations									
Feature ID	Feature Present (Y/N)	Project Components / Minimum Distance to Project Location	Size	Attributes	Composition and ELC Communities/ID (Figure 4.1, Section 4.1)	*Functions	Forward to the EOS? (Y/N)			
						<b>cSWH</b> (Section 4.2.5) – ABH01; TNA01				
WE09	Y	Access Road (23 m); Collector (31 m)	0.56 ha	Reed-canary grass meadow marsh along an intermittent watercourse; hydrologically connected to the Parrotts Bay PSW.	MAMM1-3 (ELC ID: 55)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). <b>cSWH</b> (Section 4.2.5) – ABH02; WNA01	Y			
WE10	Y	Collector (60 m); Access Road (62 m)	0.28 ha	Isolated green ash swamp with cattail and reed-canary marsh communities; surrounded by active agricultural fields.	SWDO1-2, MASO1-1 and MASO1-4 (ELC IDs: 28,29 & 30, respectively)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). <b>cSWH</b> (Section 4.2.5) – ABH03;  WNA01	Y			
WE05-15	Y	Collector (26 m); Access Road (26 m)	0.22 ha	Isolated cattail marsh surrounded by a red cedar coniferous woodland.	MASM1-1 (ELC ID: 59)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). <b>cSWH</b> (Section 4.2.5) – ABH04	Y			
WE05-16	Y	Access Road (100 m); Collector (100 m); Hardstand (105m); Bladeswept area (51m)	0.39 ha	Isolated cattail marsh surrounded by active agricultural fields used for the production of row crops.	MASM1-1 (ELC ID: 77)	Functions as wildlife habitat, storage of carbon, cleaning air, hydrological cycling, nutrient cycling (OMNR, 2005). <b>cSWH</b> (Section 4.2.5) – ABH04	Y			

<sup>\*</sup> The functions described in this table that are associated with a specific cSWH feature ID are discussed further in Section 4.2.5. The wildlife habitat acronyms are provided below:

ABH - Amphibian Breeding Habitat, LMSA - Landbird Migratory Stopover Areas, MBBA - Marsh Bird Breeding Areas, SP - Seeps and Spring, TNA - Turtle Nesting Areas, WNA - Waterfowl Nesting Areas

#### 4.2.4 Woodlands

The *Natural Heritage Records Review Report* (AET, 2012) identified ten woodlands within 120 m of the Project Location. The woodlands confirmed during the site investigations are presented in **Figure 4-3**. **Table 4-3** includes information on the type, attributes, composition and functions of woodlands confirmed to be present within 120 m of the Project Location. **Table 4-3** also includes changes to woodland polygons determined through site investigations. In particular, please note that one of the woodlands (WO06) is composed of multiple individual woodlands (WO05-1, WO05-2, WO05-3 and WO07) identified as individual woodlands in the *Natural Heritage Records Review Report*. The site investigations confirmed the presence of WO05-1, WO05-2, WO05-3 and WO07, however, determined that these woodland units are contiguous with WO06. Therefore, all of these woodland units are described in this report as WO06 only. Additionally, site investigation confirmed that two woodlands (WO5-4 and WO5-5) identified at records review were actually four woodlands (WO5-4, WO5-5, WO13, and WO14) as distances >20 m created divisions in the original polygons. Site investigation also confirmed the presence of a previously unidentified woodland, WO15, within 120 m of the Project Location.

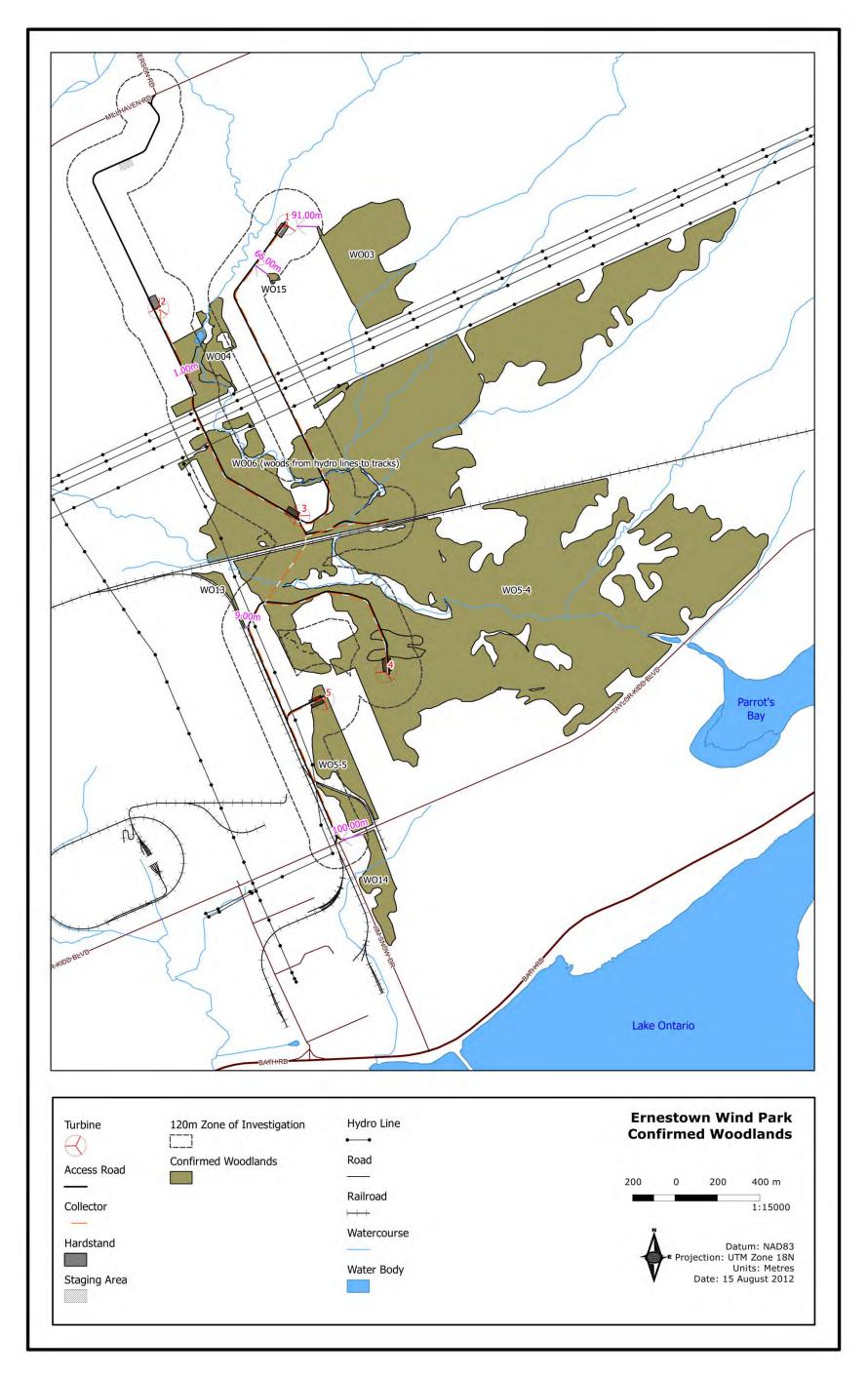


Figure 4-3: Woodlands verified during the site investigation

 Table 4-3: Woodlands verified during the site investigation

Esstano	Feature	1 Tojece Components,		Determination Made During the Site Investigations					
Feature ID	Present (Y/N)	Minimum Distance to Project Location	Size	Attributes	Composition and ELC Community/ ID (Figure 4.1, Section 4.1)	**Functions	Forward to the EOS? (Y/N)		
WO03	Y	Location: Situated southeast of Turbine #1 with a portion found within 120 m of the Project Location  Project Components: Bladeswept area (91m)	16 ha	Soil Type: Silty Loam  Characteristics: Isolated woodland surrounded by active agricultural fields used for the production of cash crops; comprised of one vegetation community (FODM6-4), however, is considered diverse based on the presence of the following dominant species: Sugar Maple, Basswood, Eastern Hemlock, Eastern White Pine (MNR, 2011); a watercourse traverses southwest along the southern portion of this woodland; community age ranges from young to mid-aged.  Confirmed Evidence of Wildlife Use: Pileated Woodpecker, Northern Flicker, Ovenbird, Song Sparrow, American Robin, Red-tailed Hawk	Dominant Vegetation: Sugar Maple, American Elm, Basswood, Eastern Hemlock, Eastern White Pine ELC Community/ID: FODM6-4 (ELC ID: 26)	Water Protection: A watercourse traverses southwest along the southern portion of this woodland  Linkages: The watercourse provides a linkage for wildlife species to move between this woodland and the surrounding natural features (wetlands WE02, WE04, WE05-2, WE05-4) and woodland (WO06)  Wildlife Habitat: cSWH (Section 4.2.5) for seasonal concentration areas of animals (LMSA01)	Y		
WO04	Y	Location: Situated north of the CN Rail with a portion found on and within 120 m of the Project Location  Project Components: Access Road (0 m); Collector (0 m)	7.8 ha	Soil Type: Silty Clay Loam  Characteristics: Comprised of three vegetation communities (FODM6-1, FODM7-6, SWDM2-1) and is considered diverse based on the presence of the following dominant species: Sugar Maple, Basswood, Shagbark Hickory, Eastern Hemlock, Eastern White Pine (MNR, 2011); community age ranges from young to mid-aged; a watercourse traverses southeast through the central portion of this woodland; found in close proximity to a larger contiguous woodland (identified as woodland WO06).  Confirmed Evidence of Wildlife Use: Cedar Waxwing, Downy Woodpecker, Rosebreasted Grosbeak, Song Sparrow, Red-eyed Vireo, Indigo Bunting, American Robin, Red Squirrel, House Wren, Ovenbird, Common Yellowthroat	Dominant Vegetation: Sugar Maple, Black Ash, Basswood, Shagbark Hickory, Eastern Hemlock, Eastern White Pine  ELC Communities: FODM7-6 (ELC ID: 35); SWDM2-1 (ELC ID: 36); FODM6-1 (ELC ID: 37)	Water Protection: A watercourse traverses southeast through the central portion of this woodland  Linkages: The watercourse provides a linkage for wildlife species to move between this woodland and the surrounding natural features (wetlands WE02, WE04, WE05-2, WE05-4) and woodland (WO06)  Wildlife Habitat: cSWH (Section 4.2.5) for seasonal concentration areas of animals (RWA01, BMR01, BMR02, BMR03, BMSA01), specialized habitat for wildlife (WNA01, ABH02)	Y		
WO05-4	Y	Location: Situated south of the CN Rail with a portion found on and within 120 m of the Project Location  Project Components: Access Road (0 m); Collector (0 m); Hardstand (0 m); Turbine 4 (0 m)	147 ha	Soil Type: Clay Loam  Characteristics: Comprised of five vegetation communities (FOCM1-2, FOCM2-1, FODM7-1, FODM7-2 and WOCM1-1) and is considered diverse based on the presence of the following dominant species: Eastern White Pine and White Spruce (MNR, 2011); there are two watercourses that traverse through the central portion of this woodland; approximately 11 ha of interior forest habitat within WO05-4 (based on a 100 m buffer from the edge); found in close proximity to woodland WO06.  Confirmed Evidence of Wildlife Use: Blue Jay, American Robin, Indigo Bunting, Song Sparrow, Common Yellowthroat, House Wren, Eastern Towhee	Dominant Vegetation: American Elm, Green Ash, Eastern Red Cedar, Eastern White Pine, White Spruce  ELC Communities: FOCM1-2 (ELC ID: 63); FOCM2-1 (ELC IDs: 64, 71, 72); FODM7-1 (ELC IDs: 68, 84); FODM7-2 (ELC IDs: 66, 74, 82); WOCM1-1 (ELC IDs: 62, 73, 75, 79)	Water Protection: Two watercourses that traverse through the central portion of this woodland  Interior Forest Habitat: Provides 11 ha of interior habitat for species that require interior forest habitat  Linkages: The watercourse provides a linkage for wildlife species to move between this woodland and wetland WE05-6. The woodland also provides shelter and protection for species that also use WE05-10, WE05-15 and WE05-16.  Wildlife Habitat: cSWH (Section 4.2.5) for seasonal concentration areas of animals (RWA02, LMSA04, BMSA02), specialized habitat for wildlife (ABH04, WNA02), habitat for species of conservation concern (SP01, SP02, AS03)	Y		
WO05-5	Y	Location: Situated east of the CN Rail with a portion found on and within 120 m of the Project Location  Project Components: Access Road (0 m);	8.8 ha	Soil Type: Clay Loam  Characteristics: Comprised of one vegetation communities (FODM7-1) and is considered moderately diverse based on the presence of the following dominant species: Green ash and White elm (MNR, 2011); found in close proximity to woodland WO05-4.  Confirmed Evidence of Wildlife Use: American Robin, Rose breasted grosbeak,	Dominant Vegetation: Green Ash, White elm, Canada goldenrod  ELC Communities: FODM7-1 (ELC ID: 84, 89); FODM2-2 (ELC ID:	Water Protection: Two watercourses that traverse through the central portion of this woodland  Linkages: The watercourse provides a linkage for wildlife species to move between this woodland and wetland WE05-6. The woodland also provides shelter and protection for species that also use WE05-10, WE05-15 and WE05-16.	Y		

T	Feature	Project Components /					Carried Forward
Feature ID	Present (Y/N)	Minimum Distance to Project Location	Size	Attributes	Composition and ELC Community/ ID (Figure 4.1, Section 4.1)	**Functions	to the EOS? (Y/N)
		Collector (0 m); Hardstand (0 m); Turbine (0 m)		Yellow warbler	82)	Wildlife Habitat: cSWH (Section 4.2.5) for seasonal concentration areas of animals (BMSA02, RWA02)	
*WO06 (compos ed of WO05- 1, WO05- 2, WO05- 3, WO07 as identifie d in the Records Review)	Y	Location: Situated north of the CN Rail with a portion found on and within 120 m of the Project Location  Project Components: Access Road (0 m); Collector (0 m); Hardstand (0 m); Turbine (0 m)	105 ha	Soil Type: Loam and Clay Loam  Characteristics: Comprised of four vegetation communities (FODM9-4, SWDM2-2, FODM2-3 and WOCM1-1) and is considered diverse based on the presence of the following dominant species: Shagbark Hickory, Bitternut Hickory, Sugar Maple, Eastern White Pine (MNR, 2011); this woodland is considered to be mid-aged; multiple watercourses traverse through this woodland; approximately 3.8 ha of interior forest habitat within WO06 (based on a 100 m buffer from the edge); there are wetlands and open water communities present within this woodland; found in close proximity to WO05-4.  Confirmed Evidence of Wildlife Use: Ovenbird, Red-eyed Vireo, Great-crested Flycatcher, Wood Thrush, Eastern Towhee, American Robin, Eastern Wood-pewee, Chipping Sparrow Green Frog, Bullfrog, Leopard Frog, Canada Swallowtail	Dominant Vegetation: Shagbark Hickory, Sugar Maple, Green Ash, Eastern Cottonwood, American Elm, Bitternut Hickory, Eastern Red Cedar, Eastern White Pine  ELC Communities: FODM9-4 (ELC IDs: 41, 47, 57); SWDM2-2 (ELC ID: 60); WOCM1- 1 (ELC IDs: 46, 54, 56); FODM2-3 (ELC ID: 39)	Water Protection: There are multiple watercourses that traverse through this woodland  Interior Forest Habitat: Provides 3.8 ha of interior habitat for species that require interior forest habitat  Linkages: The watercourse provides a linkage for wildlife species to move between this woodland and the surrounding natural features (wetlands WE02, WE04, WE05-2, WE05-4, WE05-9) and woodlands (WO03 and WO04).  Wildlife Habitat: cSWH (Section 4.2.5) for seasonal concentration areas of animals (RWA01, BMR04, LMSA02, LMSA03), specialized habitat for wildlife (WNA01, ABH02), habitat for species of conservation concern (ASH01, ESBR01)	Y
WO12	N	N/A	N/A	N/A	N/A	N/A	N
WO13	Y	Location: Situated south of the CN Rail with a portion found on and within 120 m of the Project Location  Project Components: Access Road 9 m); Collector (9 m)	0.87 ha	Soil Type: Clay Loam  Characteristics: Isolated woodland surrounded by mixed meadows; comprised of one vegetation community (FODM7-2); mainly a young vegetation community.  Confirmed Evidence of Wildlife Use: Song Sparrow, Common Yellowthroat, House Wren	Dominant Vegetation: Green Ash and White Elm ELC Communities: FODM7-2 (ELC ID: 66)	Wildlife Habitat: cSWH (Section 4.2.5) for seasonal concentration areas of animals (RWA02, BMSA02) and habitat for species of conservation concern (ASH02)	Y
WO14	Y	Location: Situated east of the CN Rail with a portion found within 120 m of the Project Location  Project Components: Access Road (100 m); Collector (100 m)	4.3 ha	Soil Type: Clay Loam  Characteristics: Isolated woodland surrounded by deciduous thicket; comprised of one vegetation community (FODM7-1); there is one watercourse that runs through the woodland; mainly a mid-aged vegetation community.	Dominant Vegetation: White Elm and Green Ash ELC Communities: FODM7-1 (ELC ID: 89)	<u>Water Protection:</u> There is one watercourse that traverse through this woodland	Y
WO15	Y	Location: Situated southwest of Turbine 1 entirely within 120 m of the Project Location  Project Components: Access Road (66 m); Collector (66 m)	0.17 ha	Soil Type: Organic Characteristics: Isolated green ash swamp; surrounded by active agricultural fields	Dominant Vegetation: Green Ash ELC Communities: SWDO1-2 (ELC ID: 28)	Wildlife Habitat: cSWH (Section 4.2.5) specialized habitat for wildlife (ABH03)	

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Feature	Feature	Project Components /		Determination Made During the Site Investigations				
ID	Present (Y/N)	Minimum Distance to Project Location	Size	Attributes	Composition and ELC Community/ ID (Figure 4.1, Section 4.1)	**Functions	to the EOS? (Y/N)	

<sup>\*</sup> The site investigations confirmed the presence of WO05-1, WO05-2, WO05-3 and WO07, however, determined that these woodland units are contiguous with WO06. Therefore, all of these woodland units are described in this report as WO06 only.

Ernestown Wind Park

LMSA – Landbird Migratory Stopover Areas, RWA – Raptor Wintering Areas, ABH – Amphibian Breeding Habitat, MBBA – Marsh Bird Breeding Areas, SP – Seeps and Spring, TNA – Turtle Nesting Areas, WNA – Waterfowl Nesting Areas, ESBR – Early Successional Bird Breeding Habitat, BMR – Bat Maternity Roosts, ASH – Woodland Area-Sensitive Bird Breeding Habitat

<sup>\*\*</sup>The functions described in this table that are associated with a specific cSWH feature ID are discussed further in Section 4.2.5. The wildlife habitat acronyms are provided below:

#### 4.2.5 Wildlife Habitat

The *Natural Heritage Records Review Report* (AET, 2012) did not identify any confirmed significant wildlife habitat types within 120 m of the Project Location.

The wildlife habitat types identified in the following tables were verified during the site investigation based on initial information provided in the *Natural Heritage Records Review Report* (AET, 2012). The cSWH types were assessed based on the information collected during the site investigations, including the ELC mapping (**Figure 4-1**, **Section 4.1**), as well as criteria outlined in the *Draft Ecoregion 6E Criteria Schedules* (MNR, 2012). The wildlife habitat types that were assessed during the site investigations are discussed in **Tables 4.4**, **4.6** and **4.8**. Detailed descriptions of the cSWH identified based on the results of the site investigations are provided in **Tables 4.5**, **4.7** and **4.9** and will be carried forward to the *Natural Heritage Evaluation of Significance Report*. A map showing the cSWH on and within 120 m of the Project Location is provided in **Figures 4-4**, **4-5** and **4-6**.

As specified in Appendix D to the NHAG (MNR, 2011), the MNR has scoped the cSWH that must be addressed if located within 120 m of certain project components based on the potential for that project component to affect the use of the habitat by wildlife (see Table 1 of Appendix D of the NHAG for specific details). Habitats which are not required to be identified for a particular project component, but may exist within 120 m of that component based on landscape and geography, must be assumed to be existing. These features are then classified as generalized candidate significant wildlife habitat (GcSWH), treated as significant in the *Evaluation of Significance Report*, and construction mitigation methods are provided within the *Environmental Impact Study Report*.

Some of the cSHW identified in the tables below meet the criteria outlined in Table 1 of Appendix D of the NHAG and are consequently classified as GcSWH. Further information on these features and GcSWH can be seen in **Section 4.2.5.4**. A map showing the GcSWH within 120 m of the Project Location is provided in **Figures 4-7**.

#### 4.2.5.1 Seasonal Concentration Areas of Animals

The Natural Heritage Reference Manual (NHRM) (MNR, 2010b) describes habitats of seasonal concentration areas of animals as:

- areas where animals occur in relatively high densities for the species at specific periods in their life cycles and/or in particular seasons;
- seasonal concentration areas, which tend to be localized and relatively small in relation to the area of habitat used at other times of the year.

The *Draft Significant Wildlife Habitat Ecoregion 6E Criteria Schedules* (MNR, 2012) identifies sixteen (16) types of habitats of seasonal concentration areas of animals, including a description of wildlife habitat, species and criteria for determining significance. The following table (**Table 4.4**) describes each of these habitat types and a determination on whether they are present within 120 m of the Project Location. The habitat types that have been verified within 120 m of the Project Location are further described in **Table 4.5**, including information on the type, attributes, composition, function and minimum distance of each habitat type to the Project components. A map showing the candidate significant seasonal concentration areas of animals are provided in **Figure 4.4**.

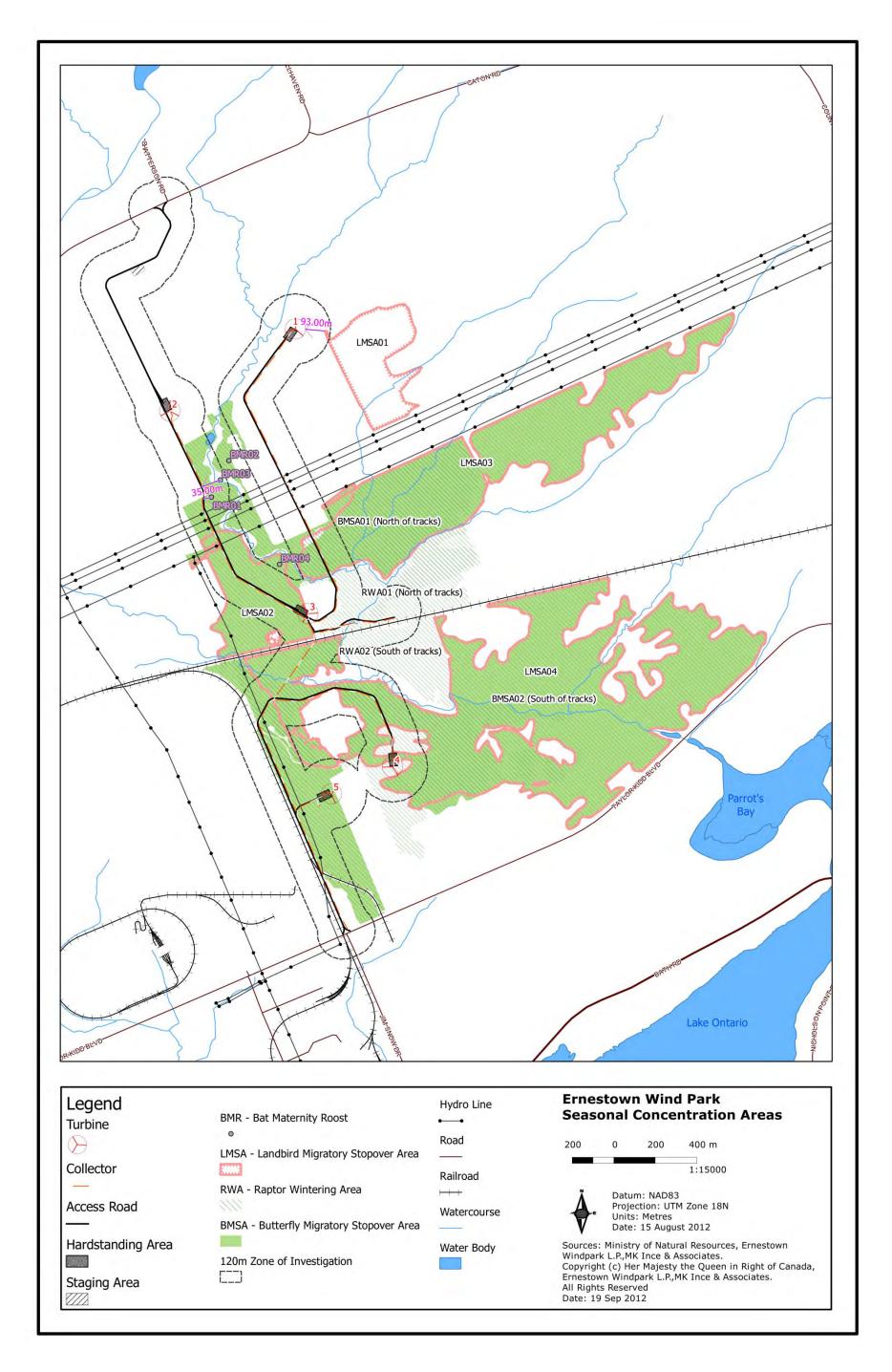


Figure 4-4: Candidate significant wildlife habitat for seasonal concentration areas of animals

Table 4-4: Assessment of wildlife habitats associated with seasonal concentration areas of animals

SWH types		Site Investigation Results		
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment	cSWH Present (Yes/No)	cSWH Feature ID
SEASONAL CO	NCENTRATION AREAS OF ANIMALS			
Waterfowl Stopover and Staging Areas (Terrestrial) (WSSA)	Fields with sheet water during the spring (mid-March to May) and with waste grains. Fields and ecosites with flooding during spring melt and run-off provide important invertebrate foraging habitat for migrating waterfowl.  Species: American Black Duck, Wood Duck, Green-winged Teal, Blue-winged Teal, Mallard, Northern Pintail, Northern Shoveler, American Wigeon, Gadwall ELC Codes: MEM, THDM2-1, plus evidence of annual spring flooding from melt water or runoff within these Ecosites.	The agricultural fields within 120 m of the Project Location are used for the production of row crops (soybean). These fields are not flooded during the spring and do not provide foraging habitat for migrating waterfowl. The site investigations also identified twenty meadow communities (MEMM3) and five shrub/thicket communities (THDM2-4 and THDM4-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ). The site investigations have determined that these communities are not flooded during the spring and do not provide foraging habitat for migrating waterfowl.	No	N/A
Waterfowl Stopover and Staging Areas (Aquatic) (WSSA)	Ponds, marshes, lakes, bays, coastal inlets, and watercourses used during migration, in any of the listed ecosites.  Sewage treatment ponds and storm water ponds do not qualify as SWH, but a reservoir managed as a large wetland or pond/lake does. These habitats have an abundant food supply (mostly aquatic invertebrates and vegetation in shallow water).  Species: Canada Goose, Cackling Goose, Snow Goose, American Black Duck, Northern Pintail, Northern Shoveler, American Wigeon, Gadwall, Green-winged Teal, Blue-winged Teal, Hooded Merganser, Common Merganser, Lesser Scaup, Long-tailed Duck, Surf Scoter, White-winged Scoter, Black Scoter, Ring-necked duck, Common Goldeneye, Bufflehead, Redhead, Ruddy Duck, Red-breasted Merganser, Brant, Canvasback, Ruddy Duck  ELC Codes: MAMR1, MAMM1, MAMO1, MAMM4, MAMM5, MAMM6, MASR1, MASM1, MASO1, SAS1, SAM1, SAF1, SWDM1, SWDM2, SWDM3, SWDM4, SWDO1, SWDO2, SWDO3	The site investigations identified four pond communities (SAS1 and OAO), thirteen marsh communities (MAMM1-3, MASM1-1, MASO1-4, MASO1-1), four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) and four tributaries of Lake Ontario within 120 m of the Project Location (Figure 4-1). The site investigations have determined that these communities do not have an abundant food supply (aquatic invertebrates and vegetation in shallow water) to provide foraging habitat for migrating waterfowl.	No	N/A
Shorebird Migratory Stopover Areas (SMSA)	Shorelines of lakes, rivers, and wetlands, including beach areas, bars and seasonally flooded shoreline, usually muddy and unvegetated, or the listed ELC ecosites. Rock groynes and other forms of armour rock lakeshores can be utilized. Species: Greater Yellowlegs, Lesser Yellowlegs, Marbled Godwit, Hudsonian Godwit, Black-bellied Plover, American Golden-plover, Seimpalmated Plover, Solitary Sandpiper, Spotted Sandpiper, Semipalmated Sandpiper, Pectoral Sandpiper, White-rumped Sandpiper, Baird's Sandpiper, Least Sandpiper, Stilt Sandpiper, Short-billed Dowitcher, Red-necked Phalarope, Whimbrel, Ruddy Turnstone, Sanderling, Dunlin  ELC Codes: SHOM1, SHOR2, SHSM1, SHSR1, SHTM1, SHTR2, SBOD1, SDS2, SBTD1, MAMR1, MAMM1, MAMO1, MAMM4, MAMM5	The Project Location is situated more than 1 km north of Lake Ontario. There are four tributaries of Lake Ontario that are within 120 m of the Project Location, however, the extent of these watercourse are vegetated and do not provide suitable habitat. The site investigations identified thirteen marsh communities (MAMM1-3, MASM1-1, MASO1-4, MASO1-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ). These wetlands are not seasonally flooded and do not provide muddy and unvegetated shoreline habitats.	No	N/A
Raptor Wintering Areas (RWA)	Raptors require a combination of fields and woodlands that are >20 ha to provide roosting, foraging and resting habitat. Fields that are row-cropped are not candidate as they do not provide habitat to sustain rodent populations on which raptors feed. The combined habitat types must be connected and not separated by a barrier (road, railway).  Species: Rough-legged Hawk, Red-tailed Hawk, Northern Harrier, American Kestrel, Snowy Owl, Short-eared Owl  ELC Codes: FOD, FOM, FOC, MEM, THDM2, TH, SV, WO (combination of ELC Community Series; need to have one Community Series from each land class	The site investigations identified fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4), four coniferous woodland communities (FOCM1-2, FOCM2-1), five shrub/thicket communities (THDM2-4 and THDM4-1) and seven cultural woodlands (WOCM1-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ).  The following combined communities and associated ELC IDs include woodlands that are >20 ha and adjacent upland cultural meadow, thicket and/or woodland communities that are > 15 ha. The following feature IDs have the potential provide candidate wintering areas for raptors:  • RWA01 – associated with woodlands WO04, WO06 and includes the following deciduous woodland communities: FODM7-6 (ELC ID: 35); FODM2-3 (ELC ID: 39); FODM9-4 (ELC	Yes	RWA01 RWA02

SWH types		Site Investigation Results		
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment	cSWH Present (Yes/No)	cSWH Feature ID
	present).	ID: 41, 47, 57); SWDM2-1 (ELC ID: 36); FODM6-1 (ELC ID: 37); also includes the following upland cultural meadow, thicket and woodland communities: MEMM3 (ELC IDs: 40, 42, 43, 45, 48, 49, 51, 52, 53), WOCM1-1 (ELC IDs: 46, 54, 56) and THDM2-4 (ELC ID: 34).		
		• RWA02 – associated with woodland WO05-4 and WO13 and includes the following deciduous and coniferous woodland communities: FODM7-1 (ELC ID: 68, 84), FODM7-2 (ELC IDs: 66, 74, 82), FOCM1-2 (ELC ID: 63) and FOCM2-1 (ELC IDs: 64, 71, 72); also includes the following upland cultural meadow, thicket and woodland communities: MEMM3 (ELC ID: 67), THDM2-4 (ELC IDs: 76, 78) and WOCM1-1 (ELC IDs: 62, 73, 75, 79).		
Bat Hibernacula (BH)	Bats require caves or abandoned mines or the listed ecosites for successful hibernation.  Species: Big Brown Bat, Little Brown Myotis, Eastern Pipistrelle/Tricoloured Bat, Northern Myotis, Eastern Small-footed Myotis  ELC Codes: CCRK1, CCRN1, CCAK1, CCA2	The site investigations did not identify any caves, mine shafts, underground foundations and karsts within the vicinity of the Project Location ( <b>Figure 4-1</b> ). None of the requisite ELC communities were identified during the site investigation.	No	N/A
Bat Maternity Roosting Sites (BMR)	Bat maternity roost exist within tree cavities and vegetation within all ecosites of FOD or FOM. Qualifying forests contain a density of >10 large snags or cavity trees (>25 cm DBH) per hectare (OMNR, 2010).  Species: Big Brown Bat, Little Brown Myotis, Silver-haired Bat, Northern Myotis ELC Codes: FOD, FOM	Site investigations conducted by AET in 2010, followed 2010 guidance documents (MNR's <i>Bat and Bat Habitats: Guidelines for Wind Power Projects</i> ) for bat maternity roost area searches. During 2010 surveys all woodlands within 120m of the Project Location were searched for potential roosting sites. This survey information in conjunction with surveys conducted in 2009, identified four tree cavities. The following feature IDs have been identified as candidate significant bat maternity roosting sites:  • BMR01 – associated with FODM6-1 (ELC ID: 37) which is approximately 4.0 ha; cavity identified in White Ash tree in WO04  • BMR02 – associated with FODM7-6 (ELC ID: 35) which is approximately 2.8 ha; cavity identified in Shagbark Hickory tree in WO04  • BMR03 –associated with SWDM2-1 (ELC ID: 36) which is approximately 1.1 ha; cavity identified in White Oak tree in WO04  • BMR04 – associated with FODM9-4 (ELC ID: 57) which is approximately 19 ha; cavity identified in Trembling Apen tree in WO06	Yes	BMR01 BMR02 BMR03 BMR04
Bat Migratory Stopover Area (BSA)	Long distance migratory bats typically migrate during late summer and early fall from summer breeding habitats throughout Ontario to southern wintering areas. Their annual fall migrations concentrate these species of bats at stopover areas. The location and characteristics of stopover habitats are generally unknown.  Species: Hoary Bat, Eastern Red Bat, Silver-haired Bat  ELC Codes: None specified	There was no indication during the site investigations that suitable bat migratory stopover areas exist within the vicinity of the Project Location.	No	N/A
Turtle Wintering Areas (TWA)	Waterbodies, large wetlands and bogs and fens (see listed Community Classes and Series) with standing water deep enough to not freeze with soft mud substrates.  Species: Midland Painted Turtle, Northern Map Turtle, Snapping Turtle  ELC Codes: SW, MA, OA and SA; FEO, BOO	The site investigations identified two open water (OAO) communities (ELC IDs: 33, 61) that have suitable ELC classification for overwintering habitat for turtles ( <b>Figure 4-1</b> ). However, only one of these communities is within 120 m of the Project Location (ELC ID: 33). This open water community has permanent standing water and soft substrates suitable for burrowing; however, the depth of water was not deep enough not to freeze. Additionally, the water body is not a healthy environment to support aquatic fauna (highly contaminated from agricultural runoff).	No	N/A
Reptile Hibernaculum (RH)	Snake habitat may be found in any ecosite in central Ontario other than very wet ones. Talus, Rock Barren, Crevice and Cave and Alvar sites may be directly related to these habitats. Observations of congregations of snakes on sunny, warm days in the spring or fall are a good indicator. The existence of rock piles or slopes, stone fences and crumbling foundations assist in identifying candidate SWH.  Species: Eastern Garternake, Northern Watersnake, Northern Red-bellied Snake,	The site investigations identified a snake hibernacula within the coniferous woodland (FOCM2-1; ELC ID: 63) located south of the CN Rail ( <b>Figure 4-1</b> ). This rock barren community type (less than 0.5 ha, therefore no ELC evaluation was performed) may provide suitable reptile hibernacula. An alvar community was also identified during the site investigations (RBOA1-2; ELC ID: 20). However, the site investigations did not identify any rock piles, burrows or fissures within the open dry pavement that would provide access to subterranean sites below the frost line. The following feature ID has been	Yes	RH01 (classified as GcSWH – see Table 4-5 and Section 4.2.5.4 below)

SWH types		Site Investigation Results		
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment	cSWH Present (Yes/No)	cSWH Feature ID
	Northern Brownsnake, Smooth Green Snake, Northern Ring-necked Snake, Milksnake, Eastern Ribbonsnake, Five-lined Skink (southern shield population) <u>ELC Codes (Snakes)</u> : All ecosites, except wet ones. <u>ELC Codes (Five-lined Skink)</u> : FOD, FOM; FOCS1, FOCM3.	identified as a candidate significant reptile hibernacula site:  • RH01 – associated with rock barren ELC community type (however formal vegetation community		
	Bank and Cliff  Any site or areas with exposed soil banks, undisturbed or naturally eroding. Eroding banks, sandy hills, borrow pits, steep slopes and sand piles are needed for Bank Swallow and N. Rough-winged Swallow. Cliff faces, bridge abutments, silos, barns for Cliff Swallows. Does not include man-made structures (bridges or buildings) or recently (2 years) disturbed soil areas such as berms, embankments, soil or aggregate stockpiles.  Species: Bank Swallow, Cliff Swallow, Northern Rough-winged Swallow  ELC Codes: MEM, THDM2-1, SVDM3, BLOC1, BLSC1, BLTC1, CLOC1, CLSC1, CLTC1	The site investigations identified twenty meadow communities (MEMM3) and five shrub/thicket communities (THDM2-4 and THDM4-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ). None of the listed ecosites have eroding banks, sand piles, steep slopes or sandy hills suitable for colonial breeding bird species that nest on banks and cliffs.	No	N/A
Colonially- Nesting Bird Breeding Habitat (CNBBH)	Tree/Shrubs  Nests in live or dead standing trees in wetlands, lakes, islands and peninsulas.  Shrubs and occasionally emergent vegetation may also be used. Most nests in trees are 11-15 m from the ground, near the top of the tree.  Species: Great Blue Heron, Black-crowned Night-heron, Great Egret, Green Heron  ELC Codes: SWM2, SWM3, SWM5, SWM6, SWDM1, SWDM2, SWDM3, SWDM4, SWDO1, SWDO2, SWDO3, FETC1	The site investigations identified four deciduous swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) within 120 m of the Project Location ( <b>Figure 4-1</b> ). No nests or heronries were found in any of the listed ecosites.	No	N/A
	Ground  Any rocky island or peninsula (natural or artificial) within a lake or large river. Close proximity to watercourses in open fields or pasture with scattered trees or shrubs. Habitat also included listed ecosites.  Species: Herring Gull, Great Black-backed Gull, Little Gull, Ring-billed Gull, Common Tern, Caspian Tern, Brewer's Blackbird  ELC Codes: MAMR1, MAMM1, MAMO1, MAMM4, MAMM5, MAMM6, MASR1, MASM1, MASO1, MEM, TH, SV	The site investigations identified thirteen marsh communities (MAMM1-3, MASM1-1, MASO1-4, MASO1-1), twenty meadow communities (MEMM3) and five shrub/thicket communities (THDM2-4 and THDM4-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ). There are also four watercourses that are within 120 m of the Project Location. There were no islands or peninsulas associated with open water or in marshy ares that may provide suitable nesting habitat.	No	N/A
Migratory Butterfly Stopover Areas (BMSA)	A butterfly stopover area will be a minimum of 10 ha in size with a combination of field and forest habitat present, and will be located within 5 km of Lake Ontario. The habitat is typically a combination of field and forest, and provides the butterflies with a location to rest prior to their long migration south. The habitat should not be disturbed, fields/meadows with an abundance of preferred nectar plants and woodland edge providing shelter are requirements for this habitat. Staging areas usually provide protection from the elements and are often spits of land or areas with the shortest distance to cross the Great Lakes.  Species: Painted Lady, White Admiral, Monarch  ELC Codes: MEM, TH, SV, FOC, FOD, FOM, CUP	The Project Location is situated approximately 1 km north of Lake Ontario. The site investigations identified twenty meadow communities (MEMM3), five shrub/thicket communities (THDM2-4 and THDM4-1), fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4) and four coniferous woodland communities (FOCM1-2, FOCM2-1) within 120 m of the Project Location (Figure 4-1).  The following combined communities and associated ELC IDs include woodlands and adjacent upland habitat that is > 10 ha. The following feature IDs have the potential provide significant migratory butterfly stopover areas:  • BMSA01 – associated with woodlands WO04, WO06 and includes the following deciduous woodland communities: FODM7-6 (ELC ID: 35); FODM2-3 (ELC ID: 39); FODM9-4 (ELC ID: 41, 47, 57); SWDM2-1 (ELC ID: 36); FODM6-1 (ELC ID: 37); also includes the following upland cultural meadow and thicket communities: MEMM3 (ELC IDs: 40, 42, 43, 45, 48, 49, 51, 52, 53) and THDM2-4 (ELC ID: 34).  BMSA02 – associated with woodland WO05-4 and WO13 and includes the following deciduous and coniferous woodland communities: FODM7-1 (ELC ID: 68, 84), FODM7-2	Yes	BMSA01 BMSA02

SWH types		Site Investigation Results		
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes			cSWH Feature ID
		(ELC IDs: 66, 74, 82), FOCM1-2 (ELC ID: 63) and FOCM2-1 (ELC IDs: 64, 71, 72); also includes the following upland cultural meadow and thicket communities: MEMM3 (ELC ID: 67), THDM2-4 (ELC IDs: 76, 78).		
Landbird Migratory Stopover Areas (LMSA)	Woodlands need to be >10 ha and within 5 km of Lake Ontario.  ELC Codes: FOC, FOD, FOM, SWC, SWM, SWD	The Project Location is situated approximately 1 km north of Lake Ontario. The site investigations identified fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4), four coniferous woodland communities (FOCM1-2, FOCM2-1), seven (7) cultural woodlands (WOCM1-1) and four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) within 120 m of the Project Location (Figure 4-1). The following feature IDs have the potential to provide significant landbird migratory stopover area:  • LMSA01 – associated with FODM6-4 (ELC ID: 26) which is identified as woodland WO03 in this report (Section 4.2.4)  • LMSA02 – associated with FODM9-4 and SWDM2-2 (ELC IDs: 57 and 60 respectively) which are identified as part of woodland WO06 (Section 4.2.4). The wetland community (SWDM2-2) are also identified as WE05-4 in this report (Section 4.2.3)  • LMSA03 – associated with FODM2-3 (ELC ID: 39) which is identified as part of woodland WO06 in this report (Section 4.2.4)  • LMSA04 – associated with FOCM1-2 (ELC ID: 63), FOCM2-1 (ELC IDs: 64, 71, 72),	Yes	LMSA01 LMSA02 LMSA03 LMSA04
Deer Yarding Areas	NOTE: This habitat type is determined by the MNR.	FODM7-1 (ELC ID: 68) and FODM7-2 (ELC ID: 74) which are found within woodland WO05-4 (Section 4.2.4)  No deer yarding areas were identified by the MNR.	No	N/A
(DYA)			No	N/A
Deer Winter Congregation Areas (DWCA)	Species: White-tailed Deer ELC Codes: FOC, FOD, FOM, SWC, SWM, SWD	No deer winter congregation areas were identified by the MNR.	No	N/A

**Table 4-5:** Candidate wildlife habitat associated with seasonal concentration areas of animals

Featı	ure	Project Components		Attributes and Composition		Associated Natural
Description	ID	Project Components within 120 m	Size	ELC Community / ELC ID (Figure 4.1, Section 4.1)	Function	Associated Natural Features
SEASONAL C	ONCENTRA	TION AREAS OF ANIM	IALS			
Raptor	RWA01	Access Road (0m) Collector (0m) Hardstand (0m) Turbine (0m)	119 ha	Deciduous woodland communities - FODM7-6 (ELC ID: 35); FODM2-3 (ELC ID: 39); FODM9-4 (ELC ID: 41, 47, 57); SWDM2-1 (ELC ID: 36); and FODM6-1 (ELC ID: 37).  Upland cultural meadow, thicket and woodland communities - MEMM3 (ELC IDs: 40, 42, 43, 45, 48, 49, 51, 52, 53), WOCM1-1 (ELC IDs: 46, 54, 56) and THDM2-4 (ELC ID: 34).	Open field hunting/foraging grounds for wintering raptors, together with woodlands which serve as roosting/ perching habitat.	Woodland (WO04, WO06)
Wintering Areas (RWA)	RWA02	Access Road (0m) Collector (0m) Hardstand (0m) Turbine (0m)	158 ha	Deciduous and coniferous woodland communities - FODM7-1 (ELC ID: 68, 84), FODM7-2 (ELC IDs: 66, 74, 82), FOCM1-2 (ELC ID: 63) and FOCM2-1 (ELC IDs: 64, 71, 72).  Upland cultural meadow, thicket and woodland communities: MEMM3 (ELC ID: 67), THDM2-4 (ELC IDs: 76, 78) and WOCM1-1 (ELC IDs: 62, 73, 75, 79).		Woodland (WO05-4, WO13)
Bat Maternity Roosting Sites (BMR)	BMR01	Access Road (35m) Collector (40m)	4.0 ha	Associated with FODM6-1 (ELC ID: 37); cavity identified in White Ash tree in WO04	Individual tree cavities may provide suitable maternity roosts. Tree cavities identified during	Woodland (WO04)
	BMR02	N/A	2.8 ha	Associated with FODM7-6 (ELC ID: 35); cavity identified in Shagbark Hickory tree in WO04	area searches will be used to determine if maternity roosting sites exist in the <i>Evaluation of Significance Report.</i>	Woodland (WO04)
	BMR03	Access Road (93m) Collector (91m)	1.1 ha	Associated with SWDM2-1 (ELC ID: 36); cavity identified in White Oak tree in WO04	- Keport.	Woodland (WO04)
	BMR04	N/A	19 ha	Associated with FODM9-4 (ELC ID: 57); cavity identified in Trembling Apen tree in WO04		Woodland (WO06)
Reptile Hibernaculum (RH)	RH01 (classified as GcSWH given distance to project component within 120 m)	Collector (18m)	0.1 ha	No ELC community mapped given small area (< 0.5 ha) of rock barren.	Rock barren may provide suitable snake hibernaculum.	Wetland (WE05-4)
Migratory Butterfly	BMSA01	Access Road (0m) Collector (0m) Hardstand (0m) Turbine (0m)	98 ha	Woodland communities - FODM7-6 (ELC ID: 35); FODM2-3 (ELC ID: 39); FODM9-4 (ELC ID: 41, 47, 57); SWDM2-1 (ELC ID: 36); and FODM6-1 (ELC ID: 37). Upland communities - MEMM3 (ELC IDs: 40, 42, 43, 45, 48, 49, 51, 52, 53) and THDM2-4 (ELC ID: 34).	The habitat, a minimum of 10 ha in size with a combination of field and forest habitat present, and located within 5 km of Lake Ontario, provides butterflies with a location to rest prior to their long migration south.	Woodland (WO04, WO06)
Stopover Areas (BMSA)	BMSA02	Access Road (0m) Collector (0m) Hardstand (0m) Turbine (0m)	136 ha	Deciduous and coniferous woodland communities - FODM7-1 (ELC ID: 68, 84), FODM7-2 (ELC IDs: 66, 74, 82), FOCM1-2 (ELC ID: 63) and FOCM2-1 (ELC IDs: 64, 71, 72). Upland communities - MEMM3 (ELC ID: 67) and THDM2-4 (ELC IDs: 76, 78).		Woodland (WO05-4, WO13)
Landbird Migratory Stopover	LMSA01	Bladeswept area (93m)	16 ha	Dominant Vegetation: Sugar Maple, American Elm, Basswood, Eastern Hemlock, Eastern White Pine  ELC Community/ID: FODM6-4 (ELC ID: 26)	Woodland is > 10 ha and within 2 km of Lake Ontario. This woodland is also found in close proximity to wetland and meadow communities.	Woodland (WO03)
Areas (LMSA)	LMSA02	Access Road (0m)	20 ha	Dominant Vegetation: Shagbark Hickory, Sugar Maple, Green Ash, Eastern Cottonwood, American	-	Woodland (WOO6)

Featu	ure	- Project Components	Components Attributes and Composition			Associated Natural
Description	ID	within 120 m	Size	ELC Community / ELC ID (Figure 4.1, Section 4.1)	Function	Features
		Collector (0m)		Elm, Bitternut Hickory, Eastern Red Cedar, Eastern White Pine		Wetland (WE05-4)
		Hardstand (0m) Turbine (0m)		ELC Communities: FODM9-4 (57) and SWDM2-2 (ELC ID: 60)		
	LMSA03	Access Road (0m) Collector (0m)	64 ha	<u>Dominant Vegetation</u> : Shagbark Hickory, Sugar Maple, Green Ash, Eastern Cottonwood, American Elm, Bitternut Hickory, Eastern Red Cedar, Eastern White Pine		Woodland (WOO6)
		Bladeswept area (107m)		ELC Communities: FODM2-3 (ELC ID: 39)		
	LMSA04	Access Road (0m) Collector (0m)	126 ha	<b><u>Dominant Vegetation</u></b> : American Elm, Green Ash, Eastern Red Cedar, Eastern White Pine, White Spruce		Woodland (WO05-4)
		Hardstand (0m) Turbine (0m)		ELC Communities: FOCM1-2 (ELC ID: 63), FOCM2-1 (ELC IDs: 64, 71, 72), FODM7-1 (ELC ID: 68) and FODM7-2 (ELC ID: 74)		

#### 4.2.5.2 Rare Vegetation Communities and Specialized Habitat for Wildlife

The Natural Heritage Reference Manual (NHRM) (MNR, 2010b) describes rare vegetation communities or specialized habitat for wildlife as:

- rare vegetation communities include:
  - o areas that contain a provincially rare vegetation community
  - o areas that contain a vegetation community that is rare within the planning area
- specialised wildlife habitat include:
  - o areas that support wildlife species that have a highly specific habitat requirements
  - o areas with exceptionally high species diversity or community a diversity
  - o areas that provide habitat that greatly enhances species' survival

The *Draft Significant Wildlife Habitat Ecoregion 6E Criteria Schedules* (MNR, 2012) identifies seven (7) types of rare vegetation communities and seven (7) types of specialized habitat for wildlife found within Ecodistrict 6E. The following table (**Table 4.6**) describes each of these habitat types and a determination on whether they are present within 120 m of the Project Location. The habitat types that have been verified within 120 m of the Project Location are further described in **Table 4.7**, including information on the type, attributes, composition, function and minimum distance of each habitat type to the Project components. A map showing the candidate rare vegetation communities or specialized habitat for animals are provided in **Figure 4-4**.

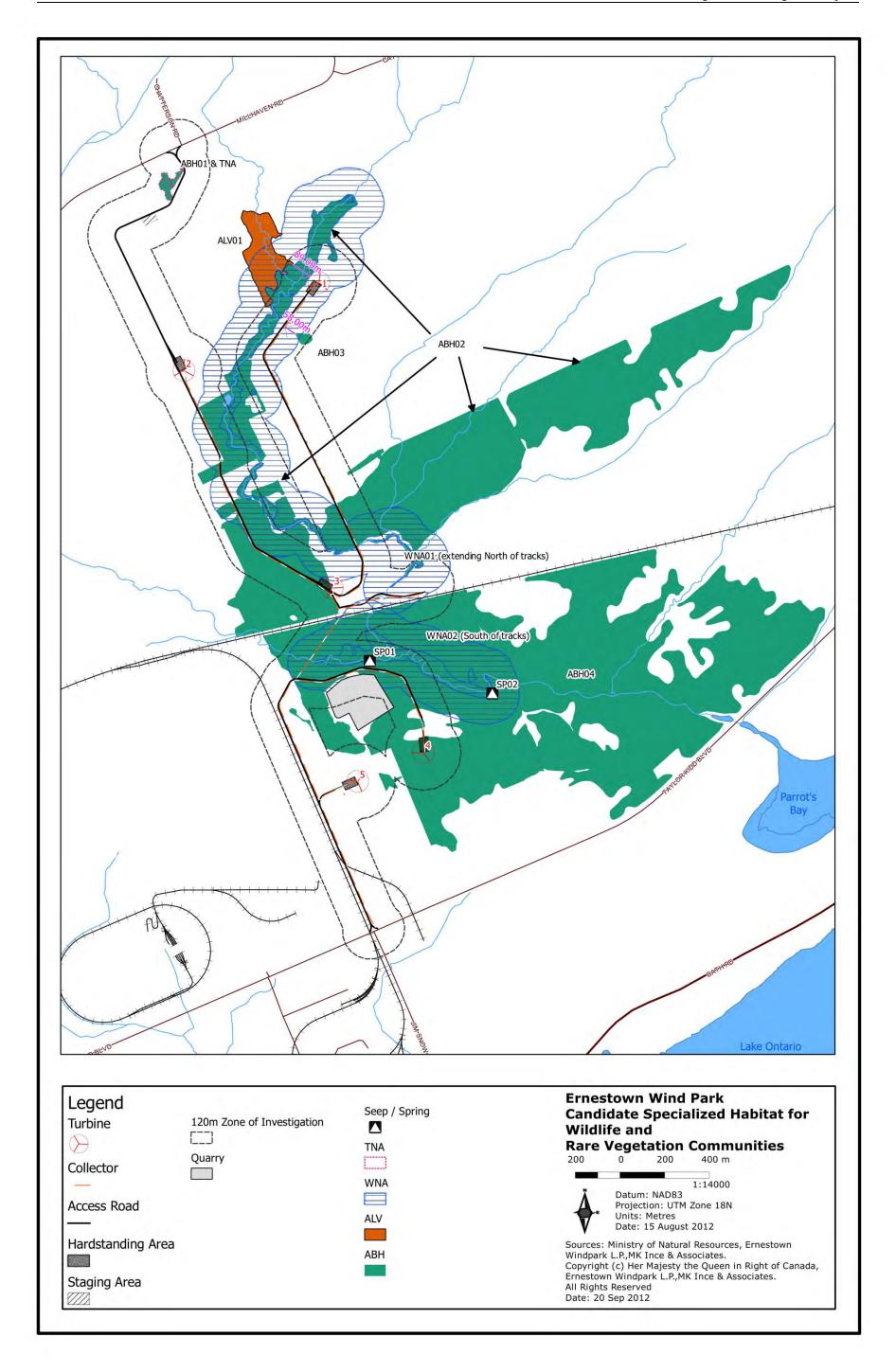


Figure 4-5: Candidate significant wildlife habitat for rare vegetation communities and specialized habitat

Table 4-6: Assessment of wildlife habitat for rare vegetation communities and specialized habitat for wildlife

SWH types		Site Investigation Results		
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment	cSWH Present (Yes/No)	cSWH Feature ID/ELC ID
RARE VEGETA	TION COMMUNITIES			
Alvars (ALV)	A level, mostly unfractured calcareous flat bedrock feature with a mosaic of rock pavements and bedrock overlain by a thin veneer of soil. Vegetation is composed of sparse lichen-moss associations to grasslands and shrublands and comprising a number of characteristic or indicator plants. Vegetation cover varies from patchy to barren with a less than 60% tree cover. An alvar that is >0.5 ha is considered cSWH.  ELC Codes: RBOA1, RBSA1, RBTA1, FOCS1, FOCM2, MEM2, CUS2, CUT2-1, RBTA1		Yes	ALV01
Cliffs and Talus Slopes (CTS)	A cliff is vertical to near vertical bedrock greater than 3 m in height. A Talus slope is rock rubble at the base of a cliff made up of coarse rocky debris, or is one of the listed ecosites. Most occur along the Niagara Escarpment.  ELC Codes: TAO, TAS, TAT, CLO, CLS, CLT	The site investigations did not identify any talus slopes or cliffs within 120 m of the Project Location. None of the requisite ELC communities were identified during the site investigations.	No	N/A
Sand Barrens (SB)	Exposed sand, generally sparsely vegetated and caused by lack of moisture, periodic fires and erosion. They have little or no soil and the underlying rock protrudes through the surface. Usually located within other types of natural habitat such as forest or savannah. Vegetation can vary from patchy and barren to tree covered but <60%. Vegetation low and patchy. Typical species: Bracken Fern, Hay Sedge, Deep-green Sedge, New Jersey Tea. Ecosites for sand barrens are SBO1, SBS1 or SBT1.	The site investigations did not identify any sand barrens within 120 m of the Project Location. None of the requisite ELC communities were identified during the site investigations and no evidence of sandy soil with sparse vegetation and exposed bedrock were found.	No	N/A
Tall-grass Prairies (TGP)	Naturally open areas containing <25% trees and a ground cover dominated by prairie grasses and forbs, identifiable by a number of indicator species. <u>ELC Codes</u> : TPO1, TPO2	The site investigations did not identify any tallgrass prairies within 120 m of the Project Location. None of the requisite ELC communities were identified during the site investigations. There were no tallgrass indicator species identified within the twenty meadow communities (MEMM3) identified during the site investigations ( <b>Figure 4-1</b> ).	No	N/A
Savannahs (SAV)	Tallgrass prairie habitat that has tree cover between 25-60%, or listed ecosites. Remnant sites such as railway right of ways are not considered SWH. <u>ELC Codes</u> : TPS1, TPS2, WODM1, WODM6, CUS2	The site investigations did not identify any savannahs within 120 m of the Project Location ( <b>Figure 4-1</b> ). None of the requisite ELC communities were identified during the site investigations.	No	N/A
Old Growth Forest (OGF)	Forests characterized by heavy mortality or turnover of over-storey trees resulting in a mosaic of gaps that encourage development of a multi-layered canopy and an abundance of snags and downed woody debris. Stands > 30 has or with at least 10 ha interior habitat assuming 100 m buffer at edge of forest. <u>ELC Codes</u> : FOC, FOC and FOM.	The site investigations identified fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4) and four coniferous woodland communities (FOCM1-2, FOCM2-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ). The only communities that are >30 ha include: FODM2-3 and FOCM2-1 (ELC IDs: 39 and 72, respectively). FODM2-3 is 31 ha and has approximately 18 ha of interior forest (based on a 100 m buffer from the edge) and FOCM2-1 (ELC ID:72) is 38 ha with approximately 11 ha of interior habitat. However, none of these communities are considered to be old-growth (>140 years of age).	No	N/A
Other Rare Vegetation Communities (ORVC)	Provincially rare vegetation communities (i.e., assigned an Srank of S1, S2 or S3) may include beaches, fens, forest, marsh, barrens, dunes and swamps. Appendix M of the SWHTG (MNR, 2000) and Biodiversity Explorer plant database (NHIC, 2012) should be consulted to determine the provincial Srank of a vegetation community. <u>ELC Codes</u> : None specified	Appendix M of the SWHTG (MNR, 2000) and Biodiversity Explorer plant database (NHIC, 2012) were consulted to determine if any of the vegetation communities identified during the site investigation are considered provincially rare. The site investigations identified a Dry Annual Open Alvar Pavement Type (RBOA1-2; ELC ID: 20) within 120 m of the Project Location ( <b>Figure 4-1</b> ). The SWHTG (MNR, 2000) identifies this ecosite as a provincially rare (S1) vegetation community. However, the Biodiversity Explorer plant database (NHIC, 2012) did not have this vegetation type listed on their website. This vegetation community is an alvar. Please refer to ALV01 for reference to this feature.  There were no other rare vegetation communities identified within 120 m of the Project Location, based	No	N/A

SWH types		Site Investigation Results		cSWH Feature ID/ELC ID
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment	cSWH Present (Yes/No)	
		on the list for Picton Ecodistrict 6E-15 (NHIC, 2012; Henson and Brodribb, 2005).		
SPECIALIZED I	HABITAT FOR WILDLIFE			
Waterfowl Nesting Areas (WNA)	A waterfowl nesting area extends 120 m from a wetland or cluster of 3 or more small wetlands (>0.5 ha) where waterfowl nesting is known to occur. Upland areas should be at least 120 m wide. Waterfowl require upland habitats located adjacent to listed wetland ELC ecosites, including adjacency to PSW.  Species: American Black Duck, Northern Pintail, Northern Shoveler, Gadwall, Blue-winged Teal, Green-winged Teal, Wood Duck, Hooded Merganser, Mallard ELC Codes: Upland habitats adjacent to MASR1, MASM1, MASO1, SAS1, SAM1, SAF1, MAMR1, MAMM1, MAMO1, MAMM4, MAMM5, MAMM6, SWTR1, SWTM1, SWDM1, SWDM2, SWDM3, SWDM4	The site investigations identified the following wetland communities within 120 m of the Project Location: SAS1, MAMM1-3, MASM1-1, MASO1-4, MASO1-1, SWDM2-1, SWDM2-2 and SWDO1-2) (Figure 4-1). The upland communities found within 120 m of these wetlands include: FOCM1-2, FOCM2-1, FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4, WOCM1-1, THDM2-4 and MEMM3 (Figure 4-1). The following feature IDs have been identified:  • WNA01 – associated with the following wetlands: WE02 (SAS1, MAMM1-3 and SWDM2-2; ELC IDs: 12, 22 and 23, respectively), WE04 (MASM1-1, OAO and SWDM2-1 (ELC IDs: 32, 33 and 36, respectively), WE05-2 (MAMM1-3; ELC IDs: 38, 44,50), WE09 (MAMM1-3; ELC ID: 55) and WE10 (SWD01-2, MAS01-4 and MASO1-1; ELC IDs: 28, 29 and 30, respectively). The following upland communities are within 120 m of these wetlands: WO04 (FODM7-6, FODM6-1; ELC IDs: 35, 37), WO06 (FODM2-3; ELC ID: 39, FODM9-4; ELC IDs: 41, 47, 57 and WOCM1-1; ELC IDs: 46, 54, 56), FODM7-2 (ELC ID:18), THDM2-4 (ELC ID: 34) MEMM3 (ELC IDs: 21, 25, 42, 43, 45, 48, 49, 51-53).  • WNA02 – associated with the following wetland: WE05-6 (MASM1-1; ELC ID: 65). The following upland communities are within 120 m of these wetlands: WO05-4 (WOCM1-1; ELC ID: 62, 73; FOCM1-2; ELC ID: 63; FOCM2-1; ELC ID: 64, 72; FODM7-1; ELC ID: 68), MEMM3 (ELC ID: 67).	Yes	WNA01 WNA02
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat (BEOH)	Forest communities (FOD, FOM, FOC, SWD, SWM and SWC) directly adjacent to riparian areas: rivers, lakes, ponds, and wetlands. Nests are associated with lakes, ponds, rivers or wetlands along forested shorelines, islands, or on structures over water. Osprey nests are usually at the top a tree whereas Bald Eagle nests are typically in super canopy trees in a notch within the tree's canopy.  Species: Bald Eagle, Osprey  ELC Codes: FOD< FOM, FOC, SWD, SWM and SWC directly adjacent to riparian areas – rivers, lakes, ponds and wetlands	The site investigations identified fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4), four coniferous woodland communities (FOCM1-2, FOCM2-1) and four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) within 120 m of the Project Location ( <b>Figure 4-1</b> ). There were no stick nests identified in these communities during the site investigations.	No	N/A
Woodland Raptor Nesting Habitat (WRNH)	May be found in all forested ELC ecosites. May also be found in SWC, SWM, SWD and CUP3. Raptors require forested areas for breeding as they construct stick nests within trees. All natural or conifer plantation woodland/forest stands >30 ha with >10 ha of interior habitat. Interior habitat determined by a 200 m buffer.  Species: Northern Goshawk, Cooper's Hawk, Sharp-shinned Hawk, Redshouldered Hawk, Barred Owl, Broad-winged Hawk  ELC Codes: May be found in all forested (FO) ecosites and SWC, SWM, SWD and CUP3	The site investigations identified ten woodlands within 120 m of the Project Location (WO03, WO04, WO05-1, WO05-2, WO05-3, WO05-4, WO05-5, WO06, WO07) ( <b>Figure 4-3</b> ), comprised of fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4), four coniferous woodland communities (FOCM1-2, FOCM2-1) and four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) ( <b>Figure 4-1</b> ). The only communities that are >30 ha include: FODM2-3 (ELC ID: 39) which is 31 ha and FOCM2-1 (ELC ID:72) which is 38 ha. Neither of these woodlands and associated vegetation communities provide >10 ha of interior forest habitat based on a 200 m buffer from the edge.	No	N/A
Turtle Nesting Areas (TNA)	Turtles require exposed mineral soil (sand or gravel) areas that are well drained and are exposed to the sun and adjacent (<100m) or within the listed ecosites for nesting.  Species: Midland Painted Turtle, Northern Map Turtle, Snapping Turtle  ELC Codes: MAMM1, MAMO1, MAMM4, MAMM5, MAMM6, SAS1, SAM1, SAF1, BOOG1, FEOG1	The site investigations identified two submerged shallow aquatic communities (SAS1) and thirteen marsh communities (MAMM1-3, MASM1-1, MASO1-4, MASO1-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ). There was one suitable ELC community that provides the appropriate conditions (sand and gravel) for turtles to dig in for nesting purposes.  The following suitable turtle nesting area with exposed mineral soils include:  • TNA01 – associated with wetland WE08 and includes a submerged shallow aquatic community and marsh community: SAS1 and MAMM1-3 (ELC IDs: 10 and 11, respectively); this feature ID is approximately 0.60 ha.	Yes	TNA01
Seeps and	Seeps/Springs are areas where ground water comes to the surface. Often they are	The site investigations identified two seeps (SP01 and SP02) FOCM2-1 (ELC IDs: 72) located south of	Yes	SP01

SWH types		Site Investigation Results			
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment		cSWH Feature ID/ELC ID	
Springs (SP)	found within headwater areas within forested habitat. Any forested ecosite within the headwater areas of a stream could have seeps/springs.  Species: Wild Turkey, Ruffed Grouse, Spruce Grouse, White-tailed Deer, Salamander spp.  ELC Codes: Headwater areas within forested habitats	the CN Rail. SP01 is found within 120 m of the Project Location. The second seep (SP02) is located beyond 120 m from the Project Location; however, both seeps are associated with the same contiguous vegetation communities and have been considered as candidate significant specialized wildlife habitat. One additional seep was identified, however this other seep is not located in a forested area. Please refer to the <i>Water Assessment Report</i> for information on this additional seep.  The following feature IDs have been identified:  • SP01 – associated with woodland WO05-4 (FOCM2-1; ELC ID: 72)  • SP02 – associated with woodland WO05-4 (FOCM2-1; ELC ID: 72)		SP02	
Amphibian Breeding Habitat (ABH) – Woodlands / Wetlands	Woodlands  Breeding pools within the woodland or the shortest distance from forest habitat are more significant because they are more likely to be used due to reduced risk to migrating amphibians. All ecosites associated with the listed Community Series. Amphibians require areas with standing water that persists throughout the spring months. Areas associated (<120 m) with ponds are considered woodland pools.  Species: Eastern Newt, Blue-spotted Salamander, Spotted Salamander, Gray Treefrog, Spring Peeper, Western Chorus Frog (Great Lakes / St. Lawrence / Canadian Shield Population), Wood Frog  ELC Codes: FOC, FOM, FOD, SWC, SWM, SWD	The site investigations identified fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4), four coniferous woodland communities (FOCM1-2, FOCM2-1) and four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) within 120 m of the Project Location (Figure 4-1).  • ABH02 – associated with wetland WE02 (MAMM1-3 and SWDM2-2; ELC IDs: 22 & 23 respectively), WE04 (SWDM2-1, OAO, and MASM1-1; ELC IDs: 32, 33 & 36 respectively), WE05 (MAMM1-3; ELC IDs: 38,44 & 50), WE09 (MAMM1-3; ELC ID: 55), WE05-4 (SWDM2-2, and OAO; ELC IDs: 60 & 61 respectively) and woodlands WO06 [FODM9-4 (ELC IDs: 41, 47, 57); SWDM2-2 (ELC ID: 60); WOCM1-1 (ELC IDs: 46, 54, 56); FODM2-3 (ELC ID: 39)], WO04 [FODM7-6 (ELC ID: 35); SWDM2-1 (ELC ID: 36); FODM6-1 (ELC ID: 37)]  • ABH03 – associated with wetland WE10 and WO15 (SWDO1-2, MASO1-1 and MASO1-4; ELC IDs: 28,29 & 30, respectively)  • ABH04 – associated with wetland WE05-6 (MASM1-1; ELC ID: 65), WE05-10 (MASM1-1; ELC ID: 70), WE05-15 (MASM1-1; ELC ID: 59), WE05-16 (MASM1-1; ELC ID: 77) and woodland WO05-4 [FOCM1-2 (ELC IDs: 63); FOCM2-1 (ELC IDs: 64, 71, 72); FODM7-1 (ELC IDs: 68, 84); FODM7-2 (ELC IDs: 66, 74, 82); WOCM1-1 (ELC IDs: 62, 73, 75, 79)]	Yes	ABH02 ABH03 ABH04	
Amphibian Breeding Habitat (ABH) – Wetlands	Wetlands Wetlands and pools (including vernal pools) >500 m² (0.05 ha) isolated from woodlands (>120 m), supporting high species diversity are significant. The presence of shrubs and logs increase significance of pond for some amphibian species because of available structure for calling, foraging, escape and concealment from predators.  Species: Eastern Newt, American Toad, Spotted Salamander, Four-toed Salamander, Blue-spotted Salamander, Gray Treefrog, Western Chorus Frog (Great Lakes / St. Lawrence / Canadian Shield Population), Northern Leopard Frog, Pickerel Frog, Green Frog, Mink Frog, Bullfrog  ELC Codes: SW, MA, FE, BO, OA and SA.	The site investigations identified four pond communities (SAS1 and OAO), thirteen marsh communities (MAMM1-3, MASM1-1, MASO1-4, MASO1-1) and four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) within 120 m of the Project Location (Figure 4-1).  • ABH01 – associated with wetland WE08 (SAS1 and MAMM1-3; ELC IDs: 10 and 11, respectively). This wetland is isolated and >120 m from a woodland.	Yes	ABH01	

 Table 4-7: Candidate rare vegetation communities and specialized habitat for wildlife

Feature  Description ID				Attributes and Composition		
		Project Components within 120 m	Size	Characteristics ELC Community / ELC ID (Figure 4.1, Section 4.1)	Function	Associated Natural Features
RARE VEGE	CTATION COM	IMUNITIES and SPECIA	LIZED HABITA	AT FOR WILDLIFE		
Alvar (ALV)	ALV01	Access Road (100m) Hardstand (113m) Bladeswept area (92m) Collector (108)	4.7 ha	Dry Annual Open Alvar Pavement Type (RBOA1-2) (ELC ID: 20)	Exposed bedrock and alvar plant species observed.	N/A
Waterfowl Nesting Areas (WNA)	WNA01	Access Road (0m) Collector (0m) Hardstand (6m) Bladeswept area (0m)	87ha	Wetland Communities: <u>WE02</u> ( SAS1, MAMM1-3 and SWDM2-2; ELC IDs: 12, 22 and 23, respectively), <u>WE04</u> (MASM1-1, OAO and SWDM2-1 (ELC IDs: 32, 33 and 36, respectively), <u>WE05-2</u> (MAMM1-3; ELC IDs: 38, 44,50), <u>WE09</u> (MAMM1-3; ELC ID: 55) and <u>WE10</u> (SWD01-2, MAS01-4 and MASO1-1; ELC IDs: 28, 29 and 30, respectively).  Upland Communities: <u>WO04</u> (FODM7-6, FODM6-1; ELC IDs: 35, 37), <u>WO06</u> (FODM9-4; ELC IDs: 41, 47, 57; FODM2-3; ELC ID: 39 and WOCM1-1; ELC IDs: 46, 54, 56), FODM7-2 (ELC ID:18), THDM2-4 (ELC ID: 34) MEMM3 (ELC IDs: 21, 25, 42, 43, 45, 48, 49, 51-53).	Potential nesting habitat for waterfowl, including Wood Ducks and Hooded Mergansers. Meadow and woodland communities present within 120 m of a wetland.	Wetlands (WE02, WE04, WE05-2, WE09, WE10) Woodlands (WO04, WO06)
	WNA02	Access Road (0m) Collector (0m)	33ha	Wetland Communities: <u>WE05-6</u> (MASM1-1; ELC ID: 65).  Upland Communities: <u>WO05-4</u> (WOCM1-1; ELC ID: 62, 73; FOCM1-2; ELC ID: 63; FOCM2-1; ELC ID: 64, 72; FODM7-1; ELC ID: 68), MEMM3 (ELC ID: 67).		Wetlands (WE05-6) Woodland (WO05-4)
Turtle Nesting Areas (TNA)	TNA01	Access Road (1m) Staging Area (84m)	0.6 ha	Submerged Shallow Aquatic Ecosite (SAS1) and Reed-canary Grass Graminoid Mineral Meadow Marsh Type (MAMM1-3) (ELC IDs: 10 & 11, respectively)	An area for turtles to dig in, composed of sand and gravel substrate, which provides nesting habitat.	Wetland (WE08)
Seeps and Springs (SP)	SP01 SP02	Access Road (29m) Collector (29m) N/A	n/a - point feature	Woodland community: WO05-4 FOCM2-1 (ELC ID: 72)	Seeps and springs function as important feeding and drinking areas for a variety of animal species, as well as specialized habitat for some plant species. These sites are particularly valuable for wildlife during winter (OMNR, 2012).	Woodland (WO05-4)
Amphibian Breeding Habitat –	ABH02	Access Road (62m) Collector (60m)	103 ha	Wetland Communities: <u>WE02 (MAMM1-3</u> and SWDM2-2; ELC IDs: 22 & 23 respectively), <u>WE04</u> (SWDM2-1, OAO, and MASM1-1; ELC IDs: 32, 33 & 36 respectively), <u>WE05 (MAMM1-3</u> ; ELC IDs: 38,44 & 50), <u>WE09 (MAMM1-3</u> ; ELC ID: 55), <u>WE05-4</u> (SWDM2-2, and OAO; ELC IDs: 60 & 61 respectively)  Woodland Communities: <u>WO06 [FODM9-4 (ELC IDs: 41, 47, 57); SWDM2-2 (ELC ID: 60); WOCM1-1 (ELC IDs: 46, 54, 56); FODM2-3 (ELC ID: 39)], <u>WO04 [FODM7-6 (ELC ID: 35); SWDM2-1 (ELC ID: 36); FODM6-1 (ELC ID: 37)]</u></u>	Wetland, lake or pond within or adjacent to(within 120 m) to a woodland that provide amphibian breeding habitat. Woodlands with permanent ponds or those containing water in most years until mid-July are most likely to be used as breeding habitat.	Wetland (WE02, WE04, WE05, WE09, WE05-4) Woodland (WO06, WO04)
Woodlands (ABH)	АВН03	Access Road (0m) Collector (0m) Hardstand (0m) Turbine (0m)	0.28 ha	Wetland Community: WE10 (SWDO1-2, MASO1-1 and MASO1-4; ELC IDs: 28,29 & 30, respectively)  Woodland Community: WO15 (SWD01-2; ELC ID: 28)		Wetland (WE10) Woodland (WO15)
	ABH04	Access Road (0m) Collector (0m) Hardstand (0m)	154 ha	Wetland Community: <u>WE05-6</u> (MASM1-1; ELC ID: 65), <u>WE05-10</u> (MASM1-1; ELC ID: 70), <u>WE05-15</u> (MASM1-1; ELC ID: 59), <u>WE05-16</u> (MASM1-1; ELC ID: 77)		Wetland (WE05-6, WE05- 10, WE05-15, WE05-16) Woodland (WO05-4)

Fea	ature			Attributes and Composition		
Description	Description ID Project Components within 120 m Size		Size	Characteristics ELC Community / ELC ID (Figure 4.1, Section 4.1)	Function Associated N Featur	
		Turbine (0m)		Woodland Community: <u>WO05-4</u> [FOCM1-2 (ELC ID: 63); FOCM2-1 (ELC IDs: 64, 71, 72); FODM7-1 (ELC IDs: 68, 84); FODM7-2 (ELC IDs: 66, 74, 82); WOCM1-1 (ELC IDs: 62, 73, 75, 79)]		
Amphibian Breeding Habitat – Wetlands (ABH)	ABH01	Access Road (1m) Staging Area (84m)	0.60 ha	Wetland Community: WE08 (SAS1 and MAMM1-3 (ELC IDs: 10 and 11, respectively).	Isolated wetland that is > 120 m from a woodland. Permanent standing water and evidence of amphibians present within the wetland.	Wetland (WE08)

### 4.2.5.3 Habitat for Species of Conservation Concern and Animal Movement Corridors

The Natural Heritage Reference Manual (NHRM) (MNR, 2010b) describes habitats of species of conservation concern and animal movement corridors as:

- habitat of species of conservation concern:
  - o includes the habitat of species that are rare or substantially declining, or have a high percentage of their global population in Ontario
  - o includes species concern species identified under the ESA on the SARO list, which were formally referred to as "Vulnerable" in the Significant Wildlife Habitat Technical Guide
- animal movement corridors:
  - o habitats that link two or more wildlife habitats that are critical to the maintenance of a population of a particular species or group of species
  - o habitats with a fey ecological function to enable wildlife to move, with minimum mortality, between areas of significant wildlife habitat or core natural areas

The *Draft Significant Wildlife Habitat Ecoregion 6E Criteria Schedules* (MNR, 2012) identifies six (6) types of habitats of species of conservation concern and two (2) animal movement corridors, including a description of wildlife habitat, species and criteria for determining significance. The following table (**Table 4.8**) describes each of these habitat types and a determination on whether they are present within 120 m of the Project Location. The habitat types that have been verified within 120 m of the Project Location are further described in **Table 4.9**, including information on the type, attributes, composition, function and minimum distance of each habitat type to the Project components. A map showing the candidate habitats of species of conservation concern and animal movement corridors are provided in **Figure 4-6**.

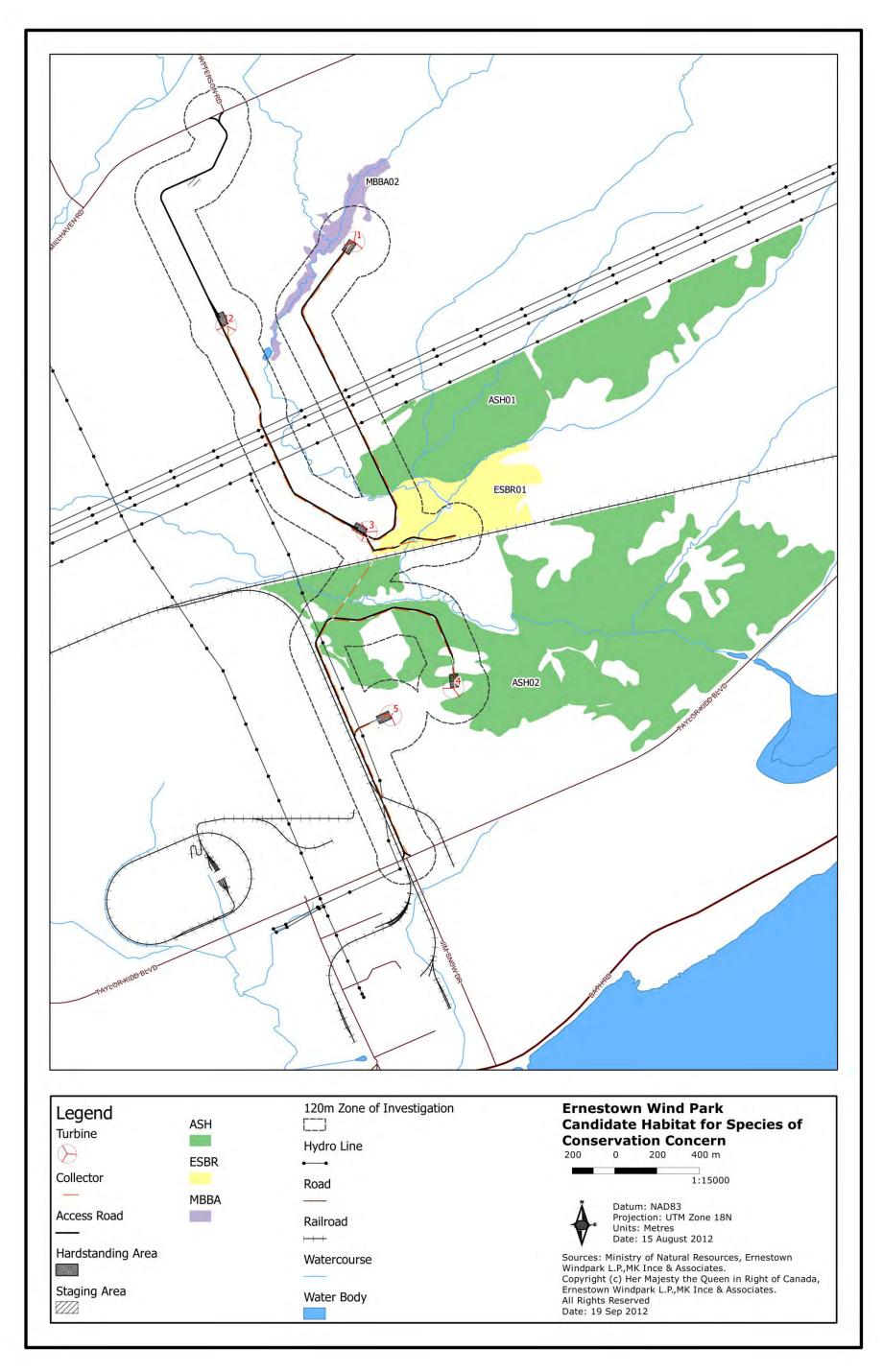


Figure 4-6: Candidate significant wildlife habitat for species of conservation concern and animal movement corridors

Table 4-8: Assessment of wildlife habitats associated with habitat for species of conservation concern and animal movement corridors

SWH types		Site Investigation Results		
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment	cSWH Present (Yes/No)	cSWH Feature ID/ELC ID
Habitats of Speci	es of Conservation Concern			
Marsh Bird Breeding Areas (MBBA)	Marsh birds require shallow wetlands or any of the listed ecosites with shallow water for foraging, as well as sufficient emergent aquatic vegetation for cover (OMNR, 2012). For Green Heron, habitat is at the edge of water such as sluggish streams, ponds and marshes sheltered by shrubs and trees. Less frequently, it may be found in upland shrubs or forest a considerable distance from water.  Species: American Bittern, Virginia Rail, Sora, Common Moorhen, American Coot, Pied-billed Grebe, Marsh Wren, Sedge Wren, Common Loon, Sandhill Crane, Green Heron, Trumpeter Swan, Black Tern, Yellow Rail  ELC Codes: MAMR1, MAMM1, MAMO1, MAMM4, MAMM5, MAMM6, SAS1, SAM1, SAF1, BOOG1, FEOG1; Green Heron (SW, MA and MEM sites)	The site investigations identified two submerged shallow aquatic communities (SAS1), thirteen marsh communities (MAMM1-3, MASM1-1, MASO1-4, MASO1-1), four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) and twenty meadow communities (MEMM3) within 120 m of the Project Location (Figure 4-1). Two candidate habitats were identified. No other communities provide shallow water and emergent aquatic vegetation. The following marsh breeding bird areas have been identified:  • MBBA01 – associated with wetland WE08 and includes two vegetation communities: SAS1 and MAMM1-3 (ELC IDs: 10 and 11, respectively); this feature ID is approximately 0.60 ha.  • MBBA02 – includes two wetland communities (submerged shallow aquatic and marsh) which are associated with wetland WE02: SAS1 and MAMM1-3 (ELC IDs: 12 and 22, respectively). Also included within this feature ID are two meadow communities that may provide Green Heron habitat as they are in close proximity to a watercourse: MEMM3 (ELC IDs: 21, 25); this feature ID is approximately 7.2 ha	Yes	MBBA01 (classified as GcSWH – see Table 4-9 and Section 4.2.5.4 below) MBBA02
Woodland Area- Sensitive Bird Species (ASH)	Area-sensitive forest bird species require larger tracts of interior forest habitat which are typically >60 years of >30 ha for breeding. Interior forest habitat is at least 200 m from forest the forest edge.  Species: Yellow-bellied Sapsucker, Red-breasted Nuthatch, Veery, Blue-headed Vireo, Northern Parula, Black-throated Green Warbler, Blackburnian Warbler, Black-throated Blue Warbler, Ovenbird, Scarlet Tanager, Winter Wren, Canada Warbler  ELC Codes: FOC, FOC, FOM, SWC, SWM, SWD.	The site investigations identified fourteen deciduous woodland communities (FODM2-3, FODM6-1, FODM7-1, FODM7-2, FODM7-6, FODM9-4), four coniferous woodland communities (FOCM1-2, FOCM2-1) and four swamp communities (SWDM2-1, SWDM2-2, SWDO1-2) within 120 m of the Project Location (Figure 4-1). The WOCM1-1 communities were excluded from the calculations in determining interior forest habitat as these are considered cultural woodlands with gaps in canopy cover that are approximately 40-60%. The following woodland area-sensitive bird species habitats (ASH) have been identified as they meet the habitat and size requirements:  • ASH01 - associated with woodland WO06, located north of the CN Rail, and includes the following vegetation community: FODM7-6 (ELC ID: 39). This woodland is 64 ha in size and provides approximately 0.0023 ha of interior forest habitat based on a 200 m buffer from the edge.  • ASH02 – associated with woodland WO05-4 and WO13, located south of the CN Rail, and includes the following four woodland communities: FOCM1-2 (ELC ID: 63), FOCM2-1 (ELC IDs: 64, 71, 72), FODM7-1 (ELC ID: 68) and FODM7-2 (ELC IDs: 66, 74). These combined vegetation communities are 132 ha in size and provide approximately 0.0031 ha of interior forest habitat based on a 200 m buffer from the edge.	Yes	ASH01 ASH02
Open Country Breeding Bird Habitat (OCBB)	Large grasslands, pasturelands, or hayfields (OAGM4) that have matured (no row cropping or intensive livestock during past five years) and are >30 ha in size (OMNR, 2012).  Species: Upland Sandpiper, Grasshopper Sparrow, Vesper Sparrow, Northern Harrier, Savannah Sparrow, Short-eared Owl  ELC Codes: MEM	The site investigations identified twenty (20) meadow communities (MEMM3) within 120 m of the Project Location ( <b>Figure 4-1</b> ). Of these, only one of the communities meets the size criterion: MEMM3 (ELC ID:80); this feature ID is identified as OCBB01 and is approximately 126.14 ha in size. All of the agricultural fields within 120 m of the Project Location are actively used for the production of row crops and do not provide suitable habitat.	Yes	OCBB01 (classified as GcSWH – see Table 4-9 and Section 4.2.5.4 below)
Shrub/Early Successional Bird Breeding Habitat (ESBR)	Large field areas succeeding to shrub and thicket habitats > 10 ha in size. Shrub land or early successional field, not class 1 or 2 agricultural lands, not being actively used for farming.  Species: Brown Thrasher, Clay-coloured Sparrow, Field Sparrow, Black-billed Cuckoo, Eastern Towhee, Willow Flycatcher, Yellow-breasted Chat, Goldenwinged Warbler  ELC Codes: THDM2-1, CUT2, SVDM3, CUS2, WOCM1, RBTA1	The site investigations identified five shrub/thicket communities (THDM2-4 and THDM4-1) and seven cultural woodlands (WOCM1-1) within 120 m of the Project Location ( <b>Figure 4-1</b> ). Of these, only two of the communities meets the size criterion:  • <b>ESBR01</b> – includes one vegetation community: WOCM1-1 (ELC ID: 56). This cultural woodland is 20 ha in size.  • <b>ESBR02</b> - includes one vegetation community: WOCM1-1 (ELC ID: 62). This cultural woodland is 13 ha in size.	Yes	ESBR01 ESBR02 (classified as GcSWH – see Table 4-9 and Section 4.2.5.4 below)
Terrestrial Crayfish Habitat	Terrestrial Crayfish are only found within southwestern Ontario in Canada and their habitats are very rare (MNR, 2012).	The Project Location is not situated in southwestern Ontario. Therefore, this habitat type was not considered.	No	N/A

SWH types		Site Investigation Results			
(Ecoregion 6E Criteria Schedules)	Habitat Criteria / Requisite ELC Codes	Assessment	cSWH Present (Yes/No)	cSWH Feature ID/ELC ID	
(TCH)	Species: Chimney or Digger Crayfish, Devil Crayfish or Meadow Crayfish  ELC Codes: MAM1, MAM2, MAM3, MAM4, MAM5, MAM6, MAS1, MAS2, MAS3				
Special Concern and Rare Wildlife Species (SCRWS)	Rare plant and animal species (S1-S3) may be present in a variety of habitats within or near the Project Location.  All plant and animal element occurrences (EO) within a 1 or 10 km grid.	During the site investigation, there was one observation of rare plant and animal species (S1-S3). A single monarch butterfly was observed within ELC community MEMM3 (ELC ID: 21). Despite this incidental observation of a single monarch butterfly, the presence of this species of conservation concern is likely due to candidate migratory butterfly stopover areas in the general area. Consequently, the monarch observation is not treated as a candidate SCRWS. Please refer to BMSA01 and BMSA02 for reference to candidate migratory butterfly stopover areas.	No	N/A	
ANIMAL MOVE	EMENT CORRIDORS				
Amphibian Movement Corridors (AMC)	Movement corridors between breeding habitat and summer habitat and can be found in all ecosites associated with water. This habitat type must be considered when there is confirmed significant amphibian breeding habitat (wetlands).  Species: Eastern Newt, Blue-spotted Salamander, Spotted Salamander, Gray Treefrog, Spring Peeper, Western Chorus Frog (Great Lakes / St. Lawrence / Canadian Shield Population), Wood Frog	Project area was examined for the presence of linkages between ABH01 and potential terrestrial habitat. Suitable physical conditions for AMC do not exist between wetland amphibian breeding habitat and summer habitat. No suitable corridors are present; corridors are not 200 m wide or following a riparian area with at least 15 m of vegetation on both sides of the waterway.	No	N/A	
Deer Movement Corridors (DMC)	Corridors may be found in all forested ecosites. Movement corridor must be determined when deer wintering habitat is confirmed SWH.  Species: White-tailed Deer	There was no deer wintering habitat identified by the MNR. Consequently, no deer movement corridors have been identified within 120m of the Project Location.	No	N/A	

Table 4-9: Candidate significant habitat for species of conservation concern

Feature Project		Project Components	Attributes and Composition			Associated Natural
Description	ID	within 120 m	Size	ELC Community / ELC ID (Figure 4.1, Section 4.1)	Function	Features
HABITATS O	F SPECIES OF C	ONSERVATION CONCI	ERN			
Marsh Bird Breeding Areas	MBBA01 (classified as GcSWH given distance to project component within 120 m)	Access Road (1m) Staging Area (84m)	0.60 ha	SAS1 and MAMM1-3 (ELC IDs: 10 and 11, respectively)	Provides nesting habitat in wetlands for marsh birds. Wetlands contain shallow water and emergent vegetation.	Wetland (WE08)
(MBBA)	MBBA02	Access Road (15m) Collector (23m) Hardstand (20m) Bladeswept area (0m)	7.2 ha	SAS1 and MAMM1-3 (ELC IDs: 12 and 22, respectively); MEMM3 (ELC IDs: 21, 25)		Wetland (WE02)
Woodland Area-sensitive	ASH01	Access Road (0m) Collector (0m) Bladeswept area (105m)	64 ha	FODM7-6 (ELC ID: 39)	Provides large, natural blocks of woodland habitat within the settled area of Southern Ontario where interior forest breeding birds can breed.	Woodland (WO06)
Bird Species (ASH)	ASH02	Access Road (0m) Collector (0m) Hardstand (0m) Bladeswept area (0m)	132 ha	FOCM1-2 (ELC ID: 63), FOCM2-1 (ELC IDs: 64, 71, 72), FODM7-1 (ELC ID: 68) and FODM7-2 (ELC IDs: 66, 74)		Woodland (WO05-4 and WO13)
Open Country Breeding Bird Habitat (OCBB)	OCBB01 (classified as GcSWH given distance to project component within 120 m)	Access Road (26m) Collector (34m)	126 ha	MEMM3 (ELC ID: 80)	Large grassland area, not being used for farming, where open country birds can breed.	N/A
Shrub/Early	ESBR01	Access Road (0m) Collector (0m) Hardstand (70m) Bladeswept area (25m)	20 ha	WOCM1-1 (ELC ID: 56)	Large field areas succeeding to shrub and thickets habitats greater than 10 ha in size. Woodlands dominated by shrubs support and sustain a diversity of avain species.	Woodland (WO06)
Successional Bird Breeding Habitat (ESBR)	ESBR02 (classified as GcSWH given distance to project component within 120 m)	Access Road (40m) Collector (38m)	13 ha	WOCM1-1 (ELC ID: 62)		Woodland (WO05-4)

#### 4.2.5.4 Generalized Candidate Significant Wildlife Habitat

As specified in Appendix D to the NHAG (MNR, 2011), habitats which are not required to be identified for a particular project component, but may exist within 120 m of that component based on landscape and geography, must be assumed to be existing (see Table 1 of Appendix D of the NHAG for specific details).

Some of the cSWH identified in the tables above meet the criteria outlined in Table 1 of Appendix D of the NHAG and are consequently classified as GcSWH. The following features meet the criteria specified in the NHAG and are therefore classified as GcSWH:

- Reptile Hibernaculum (RH01)
- Marsh Bird Breeding Habitat (MBBA01)
- Shrub/Early Successional Bird Breeding Habitat (ESBR02)
- Open Country Bird Breeding Habitat (OCBB01)

A map showing the GcSWH within 120 m of the Project Location is provided in **Figures 4-7.** All of these features are carried forward to the *Evaluation of Significant Report* where they will be assumed significant.

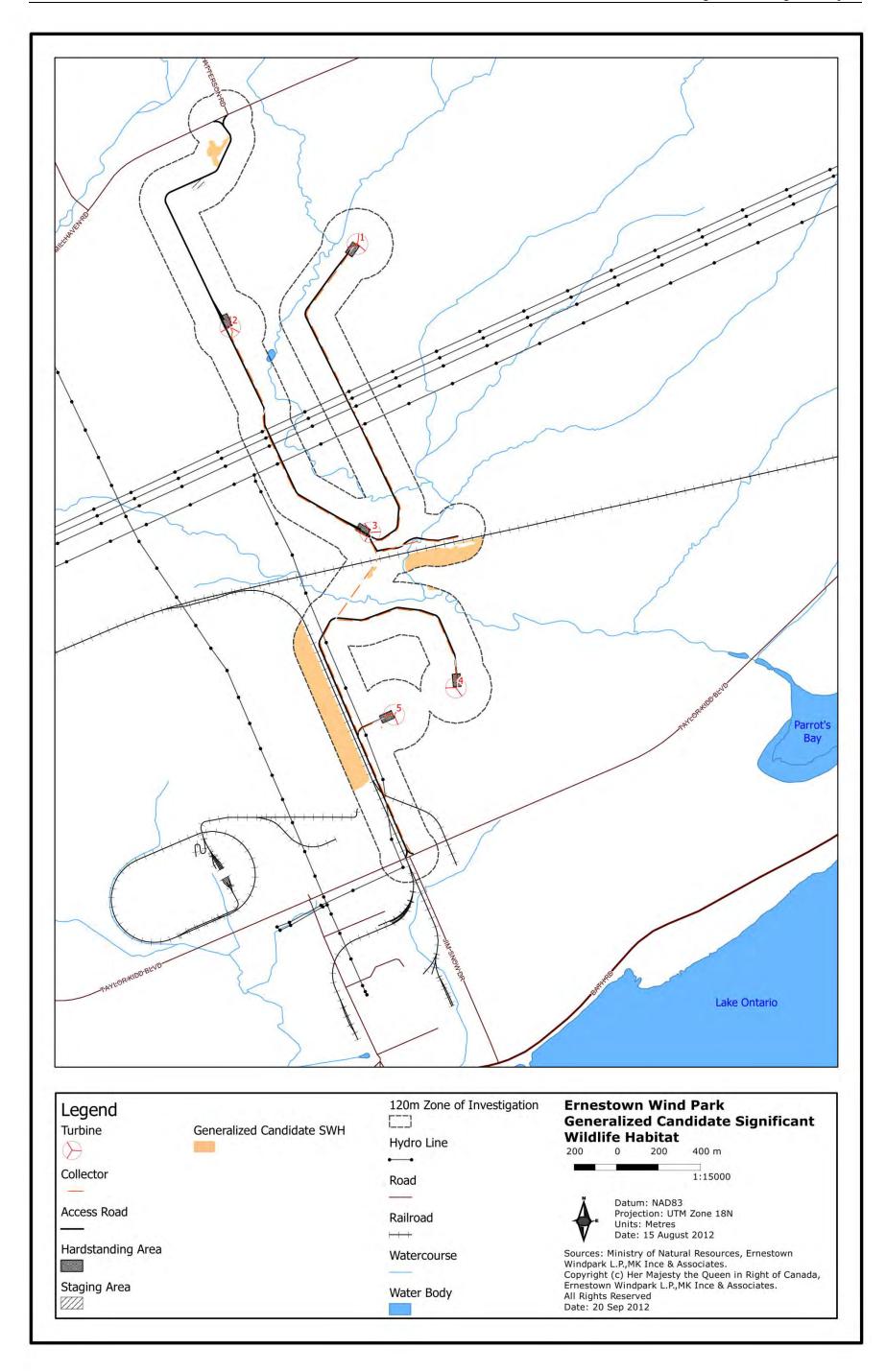


Figure 4-7: Generalized candidate significant wildlife habitat

### 5 CONCLUSION

A total of 16 natural heritage features were identified within 120 m of the proposed project during the records review. These features include:

- ten woodlands
- six wetlands

An addition natural heritage features were identified within 120 m of the proposed project during the site investigation. These features include:

- three additional woodlands
- five additional wetlands
- twelve seasonal concentration areas of animals:
  - o two candidate raptor wintering areas
  - o four candidate bat maternity roosts (four cavity trees identified)
  - o two candidate migratory butterfly stopover areas
  - o four candidate landbird migratory stopover areas
- ten rare vegetation communities or specialized habitat for wildlife:
  - o one candidate alvar
  - o two candidate waterfowl nesting areas
  - o one candidate turtle nesting area
  - o two candidate seeps and springs
  - o four candidate amphibian breeding habitats (one wetland and three woodland)
- Four habitat for species of conservation concern:
  - o one candidate marsh bird breeding habitat
  - o two candidate woodland area-sensitive bird breeding habitats
  - o one candidate shrub/early successional bird breeding habitat
- generalized candidate significant wildlife habitat

The site investigations confirmed the presence of WO05-1, WO05-2, WO05-3 and WO07, however, determined that these woodland units are contiguous with WO06. Therefore, all of these woodland units are lumped together into WO06. Additionally, one of the woodlands (WO12) identified in the records review was not found onsite and will therefore not be carried forward as a woodland feature within 120 m of the proposed project.

**Table 5-1:** Summary of corrections to the *Natural Heritage Records Review Report* 

Feature ID	Corrections Required to the Natural Heritage Records Review Report?	Carried Forward to the EOS? (Yes/No)
ANSIs (earth		
N/A	No – sources consulted during the records review did not show any ANSIs within 120 m of the Project Location; this was verified during the site investigation	No
Valleylands		
N/A	No -LIO and CCRCA mapping does not show any valleylands	No

Feature ID	Corrections Required to the Natural Heritage Records Review Report?	Carried Forward to the EOS? (Yes/No)
	within 120 m of the Project Location; this was verified during the site investigation	
Wetlands		
WE02	Yes – the extent of this feature is shown incorrectly on the SOLRIS mapping; feature delineated in field and using aerial imagery	YES
WE04	Yes – the extent of this feature is shown incorrectly on the SOLRIS mapping; feature delineated in field and using aerial imagery	YES
WE05-2	Yes – the extent of this feature is shown incorrectly on the SOLRIS mapping; feature delineated in field and using aerial imagery	YES
WE05-4	Yes – the extent of this feature is shown incorrectly on the SOLRIS mapping; feature delineated in field and using aerial imagery	YES
WE05-6	No – this feature is accurately represented on the SOLRIS mapping.	YES
WE05-10	Yes – the extent and classification of this feature is not accurately shown on the SOLRIS mapping	YES
WE05-15	Yes – this feature was not identified during the records review	YES
WE05-16	Yes – this feature was not identified during the records review	YES
WE08	Yes – this feature was not identified during the records review	YES
WE09	Yes – this feature was not identified during the records review	YES
WE10	Yes – this feature was not identified during the records review	YES
Woodlands		
WO03	Yes – the extent of this feature is shown incorrectly on the NRVIS woodland layer; feature delineated in field and using aerial imagery	YES
WO04	No – this feature is accurately shown on the NRVIS woodland layer	YES
WO05-1	Yes – this woodland encompasses a larger area than what is shown on the NRVIS woodland layer (see WO06)	No
WO05-2	Yes – this woodland encompasses a larger area than what is shown on the NRVIS woodland layer (see WO06)	No
WO05-3	Yes – this woodland encompasses a larger area than what is shown on the NRVIS woodland layer (see WO06)	No
WO05-4	Yes – this woodland is not accurately shown on the NRVIS woodland layer; feature delineated in field and using aerial imagery	YES
WO05-5	Yes – this woodland is not accurately shown on the NRVIS woodland layer; feature delineated in field and using aerial	YES

Feature ID	Corrections Required to the Natural Heritage Records Review Report?	Carried Forward to the EOS? (Yes/No)
	imagery	
WO07	Yes – this woodland encompasses a larger area than what is shown on the NRVIS woodland layer (see WO06)	No
WO12	Yes – this woodland does not exist within 120 m of the proposed Project Location	No
WO06	Yes – this feature was not identified during the records review	YES
WO13	Yes – this feature was not identified during the records review	YES
WO14	Yes - this feature was not identified during the records review	YES
WO15	Yes - this feature was not identified during the records review	YES
Habitats of S	easonal Concentration Areas of Animals	
RWA01	Yes - this feature was not identified during the records review	YES
RWA02	Yes - this feature was not identified during the records review	YES
BMR01	Yes – this feature was not identified during the records review	YES
BMR02	Yes – this feature was not identified during the records review	YES
BMR03	Yes – this feature was not identified during the records review	YES
BMR04	Yes – this feature was not identified during the records review	YES
RH01	Yes – this feature was not identified during the records review	No (see generalized candidate SWH)
BMSA01	Yes – this feature was not identified during the records review	YES
BMSA02	Yes – this feature was not identified during the records review	YES
LMSA01	Yes - this feature was not identified during the records review	YES
LMSA02	Yes - this feature was not identified during the records review	YES
LMSA03	Yes - this feature was not identified during the records review	YES
LMSA04	Yes - this feature was not identified during the records review	YES
Rare Vegetat	tion Communities or Specialized Habitat for Wildlife	
ALV01	Yes - this feature was not identified during the records review	YES
WNA01	Yes – this feature was not identified during the records review	YES
WNA02	Yes – this feature was not identified during the records review	YES
TNA01	Yes – this feature was not identified during the records review	YES
SP01	Yes – this feature was not identified during the records review	YES
SP02	Yes - this feature was not identified during the records review	YES
ABH01	Yes - this feature was not identified during the records review	YES
ABH02	Yes - this feature was not identified during the records review	YES
ABH03	Yes – this feature was not identified during the records review	YES

Feature ID	Corrections Required to the Natural Heritage Records Review Report?	Carried Forward to the EOS? (Yes/No)			
ABH04	Yes – this feature was not identified during the records review	YES			
Habitat for Sp	pecies of Conservation Concern				
MBBA01	Yes – this feature was not identified during the records review	No (see generalized candidate SWH)			
MBBA02	Yes – this feature was not identified during the records review	YES			
ASH01	Yes – this feature was not identified during the records review	YES			
ASH02	Yes – this feature was not identified during the records review	YES			
OCBB01	Yes – this feature was not identified during the records review	No (see generalized candidate SWH)			
ESBR01	Yes - this feature was not identified during the records review	YES			
ESBR02	Yes – this feature was not identified during the records review	No (see generalized candidate SWH)			
Generalized Candidate Significant Wildlife Habitat					

## **6 QUALIFICATIONS AND LIMITATIONS**

M. K. Ince and Associates Ltd. has prepared this report in accordance with its proposal and information provided by its Client. The information and analysis contained herein is for the sole benefit of the Client and save for regulatory review purposes may not be relied upon by any other person.

The contents of this report are based upon our understanding of the guidelines and standards which we believe to be current at this time. Changes in guidelines and standards can occur at any time, and such changes could affect the conclusions and recommendations of this report.

While we have referred to and made use of reports and specifications prepared by others, we assume no liability for the accuracy of the information contained within those reports and specifications.

### 7 REFERENCES

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- OMNR, 2012. Significant Wildlife Habitat Ecoregion 7E Criterion Schedule (Draft). Ontario Ministry of Natural Resources. 37 p.

## APPENDIX A- CURRICULUM VITAE



#### **Martine Fsraelian**

#### TERRESTRIAL ECOLOGIST

#### **EDUCATION**

BSc, Biology, Trent University, Peterborough, Ontario, Canada, 2006

Diploma, Environmental Science, Sir Sandford Fleming College, Lindsay, Ontario, Canada, 2000

#### **SUMMARY OF EXPERIENCE**

Martine Esraelian is a Terrestrial Ecologist specializing in species at risk and terrestrial ecosystems and has more than 2 years experience in renewable power. Martine has been involved in hydro, wind and more than 40 solar power projects. Martine has a BSc from Trent University where she specialized in Conservation Biology and Ecological Management and an Ecosystem Management Technician diploma from Sir Sandford Fleming College.

Martine has diverse technical and consulting experience as well as strong field identification skills. Martine has conducted field inventories and assessments that have included wildlife and vegetation surveys, species at risk surveys and monitoring, Ecological Land Classification (ELC) and habitat mapping, wetland evaluations, soil surveys, land use surveys, and hydrological assessments. Martine has managed several environmental projects from initial design and planning through technical analysis, documentation, and delivery. She has completed several environmental and agricultural impact studies for major development projects which has enabled her to liaise with all levels of government, the community, and a portfolio of clients that include consulting firms, planners, and high-profile developers. She also has considerable experience working with species at risk, including Jefferson salamander, spotted turtle, spoon-leaved moss, Massasauga and gray ratsnake among others. Martine is a certified Butternut Health Assessor and also holds a certificate in the Ecological Land Classification (ELC) system and Ontario Wetland Evaluation System (OWES).

#### **CAREER HISTORY**

2010 - Present	Hatch, Niagara Falls, Ontario, Canada. Terrestrial Ecologist
2008 - 2009	Colville Consulting Inc., St. Catharines, Ontario, Canada. Ecologist
2007 - 2008	Ministry of Natural Resources, Vineland, Ontario, Canada. Species at Risk Technician
2004 - 2004	Regional Municipality of Niagara, Thorold, Ontario, Canada. Environmental Assistant
2003 - 2004	Ministry of Natural Resources, Peterborough, Ontario, Canada. Conservation Biologist Intern
2001 - 2003	City of St. Catharines, St. Catharines, Ontario, Canada. Environmental Technician





#### **PROFESSIONAL DEVELOPMENT**

3-day Workshop, Turtle Management and Wetland Design, 2008

Certificate, Ontario Wetland Evaluation System, 2011

Certificate, Butternut Health Assessment, 2009

Certificate, Ecological Land Classification, 2009

Certificate, PADI Scuba Diving - Basic and Advanced, 2004

Certificate, Basadur Applied Creativity Management Training Program - Levels 1 and 2, 2004

Certificate, Project Wild, 2003

#### **LANGUAGES**

**English** 



### Dave Jolly, B.Sc.

### M.K. Ince and Associates Ltd.



#### **BIOGRAPHY**

Dave Jolly is a Senior Biologist/Ecologist with expertise in all aspects of terrestrial and wetland ecology and has been involved with Class 1 to 4 renewable energy projects since 2008. At M.K. Ince and Associates Ltd. (MKI) Dave is presently involved in ELC, wetland assessments, and wildlife habitat surveys as part of pre-construction Environmental Assessment, Natural Heritage reporting and the new REA processes for over a dozen commercial scale wind power projects across Ontario.

Before joining MKI, Dave has worked for all levels of government and nongovernment agencies as well the education and private sector in Canada, the United States, Panama, Costa Rica, Peru, Mexico, and Nepal. He has experience in training environmental professionals in areas that include but are not limited to methodology and protocols for performing ecological studies, GIS, environmental law, flora and fauna identification including Species at Risk, Ecological Land Classification (ELC), Ontario Wetland Evaluation System, natural heritage assessments, and environmental assessments. Dave has experience as an expedition leader/scientist designing, marketing and operating over 20 international research and conservation expeditions to Central, South America and southeast Asia to study primates, plants, birds and mammals. He is skilled in all aspects of the environmental consulting process (with over 10 years of experience), project development/management and managing client relations. Dave has secured numerous government contracts valued at > \$100 000 each and is fully adept in GIS, ELC, Wetland evaluation, staff management, environmental and site assessments.

In his spare time Dave enjoys hiking in search of various vascular plants including Species at Risk, writing books, photography, assisting non-profit organizations with their natural heritage inventories and spending time with family.

#### **EXPERIENCE**

- Facilitated regulatory approvals under the Migratory Birds
  Convention Act, Fish and Wildlife Act, Conservation Authorities
  Act, Provincial Policy Statement, provincial and federal Species
  at Risk Act, provincial and federal Endangered Species Act,
  Planning Act, Ontario Environmental Assessment Act and the
  Canadian Environmental Assessment Act
- Provided expertise and senior review to over 100 terrestrial and wetland biophysical assessments including wetland studies and monitoring projects, Ecological Land Classification projects, various Species at Risk projects
- Environmental inspection and compliance monitoring for construction projects in York, Durham, and Niagara Regions
- Trained environmental professionals through teaching and designing over 30 certification courses that are exempt from registration from the Ontario Ministry of Training and Colleges and Universities
- Extensive experience in negotiations and business development with Métis and First Nation groups

#### **EDUCATION**

 B.Sc., Ecology and Evolution, University of Western Ontario, 1992

#### **AFFILIATIONS**

- Field Botanists of Ontario, member
- Haldimand Bird Observatory, member

#### TRAINING/CERTIFICATIONS

- Lichen identification, 2012
- Bear Awareness, 2011
- Ice Safety, 2011
- Project management/ leadership, 2004
- Ontario Wetland Evaluation Systems, 2008
- Ecological Land Classification for Southern Ontario, 2004
- Standard First Aid and CPR certified

#### PROJECT EXPERIENCE

- ZEP Wind Farm Ganaraska, Next Era Wind Farm, Ernesttown Horizon Wind Farm, Port Ryerse Wind Farm, Grey Highlands ZEP Wind Park, Grey Highlands Clean Energy, Clean Breeze Centreton Wind Park, Clean Breeze Grafton Wind Park, Dufferin Wind Farm, Bow Lake Phase 1 —REA Application Process
- Organization and implementation of biological field studies for all projects listed above

## PRIOR WORK / VOLUNTEER EXPERIENCE

- Senior Biologist/Ecologist: Dillon, AECOM, EARTHQUEST, Avalon Professional Consultants of Ontario, Fieldlife Environmental Consultants
- Senior Instructor & President: EARTHQUEST Biological Field School
- Volunteer Botanist for the Grand River Conservation Authority
- Designed, published and marketed five field guide books on flora and fauna of Ontario and the Bruce Trail system
- Designed, marketed and operated over 20 international research/conservation expeditions to Central, South America and southeast Asia

## Joel Wynn Jameson, M.Sc.

#### M.K. Ince and Associates Ltd.



#### **BIOGRAPHY**

Joel Jameson is a Renewable Energy Biologist – Bat Specialist for M.K. Ince and Associates. He has a Bachelor (Honours) degree in Zoology from the University of Manitoba and a Masters degree in Biology from the University of Winnipeg.

Joel has worked on ecological projects in California, Ontario, Saskatchewan and Manitoba. His work has resulted in 4 peer-reviewed publications and a number of non-peer-reviewed papers, reports, and presentations, most of these on bats. During his masters, Joel designed, implemented and oversaw various research projects to understand and quantify impacts of wind energy on wildlife, especially bats. In addition to a strong background in research, Joel has worked on a number of pre-construction impact assessments of wind energy for private companies. His proficiency with a broad range of bat monitoring tools and techniques results in efficient and effective completion of REA application processes related to bats. His recent experiences with MKI have provided him with the skills to execute most REA Natural Heritage Assessment processes (e.g. Records Review, wildlife habitat surveys pertaining to the Site Investigation process, and amphibian, reptile, bat, and some bird surveys pertaining to the Evaluation of Significance process).

Joel has recently adopted an enthusiasm for birds which he is developing into a skill he can apply to the REA process. He enjoys hiking, fishing and rock climbing.

#### **EXPERIENCE**

- Over 9 years of experience conducting biological field work in remote locations and in all weather conditions
- Study design, permit and grant applications
- Writing of pre-construction reports for commercial-scale wind energy projects.
- Data analysis using a variety of software including GIS, SAS, Sonobat and Avisoft.
- Oral presentations
- Co-ordination and supervision of field researchers

### **EDUCATION**

- B.Sc.Zoology, University of Manitoba, 2007
- M.Sc. Biology, University of Winnipeg, 2011

#### **PROJECT EXPERIENCE**

- Bow Lake Wind Farm Phase 1
- Port Ryerse Wind Farm
- Skyway 125 Wind Energy Project
- Skyway 126 Wind Energy Project

## PRIOR WORK / VOLUNTEER EXPERIENCE

- Monitoring bats using Passive Integrated Transponder technology to understand the movement of White Nose Syndrome among bat populations (volunteer).
- Statistical analysis of a complex data set investigating the behaviour of bats afflicted with White Nose Syndrome
- Designed, conducted and managed large-scale acoustic and mortality surveys for bats at communication towers and at a wind energy facility.
- Recorded and studied the echolocation calls of bats at maternity colonies in Georgian Bay, ON. Excluded bats from cottages.
- Small mammal surveys for a large-scale biodiversity project in Lake Tahoe, CA.

# Y. Robert Tymstra, B.E.S. M.K.Ince and Associates Ltd.



#### **BIOGRAPHY**

Robert Tymstra is an avian wildlife specialist with M.K. Ince and Associates. He graduated from the University of Waterloo with a Bachelor of Environmental Studies.

Rob's's avian wildlife experience includes bird surveys, censuses, expeditions, banding, and migration monitoring. He has worked on avian surveys and studies in Ontario and has birded in over 60 counties worldwide. Since 2004, Rob has specialized in conducting avian surveys for wind turbine projects across Canada. His broad and extensive experience in all things avian makes Rob a highly valued member of the MKI team.

#### **EXPERIENCE**

- Participated in bird surveys, censuses, expeditions and migration monitoring programs across Canada and remote parts of the world.
- Regional Co-ordinator for Ontario Herpetological Atlas and Ontario Mammal Atlas. Participated in Ontario Forest Birds Monitoring Program.
- Led bird survey expeditions in Hudson Bay Lowlands for Ontario Breeding Bird Atlas (Opinnagau and Albany Rivers) and completed several sections in Southern Ontario for Breeding Bird Atlas 1981-1985 and 2001-2005.
- Researcher and camp leader for a Habitat Based Wildlife
   Assessment of Ekwan Point, Longridge Point and Western James
   Bay coast. Field work involved walking line transects, point counts.
- Worked as Nature Interpreter at Algonquin Provincial Park
- Initiated a long-term distributional study of the birds of the littleknown islands and waters of James Bay.
- Participated in Yunnan, China expedition in a successful search for Sclater's Monal, a rare pheasant not seen by Westerners since WWII. Also documented other limited distribution bird species.
- Conducted population surveys on endangered Butler's Garter Snake in southern Ontario 2008-2010.

#### **EDUCATION**

- B.E.S., University of Waterloo, 1991.
- Professional Photography
   Diploma, New York Institute of Photography

#### **TRAINING**

- Wildlife biology, Marine and Fisheries courses: courses, University of Guelph
- Wilderness Survival and Tracking courses: Tom Brown School, New Jersey

#### CORE COMPETENCIES

- Avian surveying and monitoring
- Wildlife tracking
- Bird-banding
- Recording bird songs
- Birding tourleader

## RELEVANT INDUSTRY EXPERIENCE

- Over 5100 bird species observed in over 60 countries
- Avian surveys, censuses, expeditions and migration monitoring
- Preparation of technical reports, journal articles and a book for bird studies
- Publication of several photos in books and journals

## MEMBERSHIPS AND ASSOCIATIONS

- Board of Directors: Pelee Island Bird Observatory (banding station)
- Board of Directors: Wilds of Pelee Island
- Ontario Field Ornithologists member
- Explorers Club fellow

## **APPENDIX B- FIELD NOTES**

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n the Kaim

2012-06-08 Ernestown Dane Jolly 300 ELC+ OWES Appendix & 16.100 Temp: Clarid: 7/10 0745-1915 Wind: 1 361941 4900618 0820 · BARS · BOBO 30m W 4800 4 photos 362972 4897472 6 photos - row 096M1306 362865 4898050 Waterbody-pond WA88 362446 4898057 Nesteral pond WART Full undergody Sphotos asserment Areac 0.16 ha TUES Appendix co 6 vegn. frag. 0943 EL : N. Leopard Bog 0940 Carter snake 0940

362445 4898652 ELC M482-1 5 photos 362476 4898094 Artificial pend WAZEI ne wetland/aquestie refers to 362567 4898129 POLZ-1 Edge Edge of Foct-1 Glant sughenful 362579 4898207 FOCZ-1 FOLZ-1 · IN BU 1209 362548 4898075 Fell aceger 15067-1 4 photos

Dy.

362557 4898044 FULZ-1/FODT-1 PXZ-1Edgez 4 photos 362621 489799 FOLZ-1/FODT1 FUCZ-1 Edge3 4 photos 362658 4857944 CUT1-4 CUTI-4 Kedge / 4photo 3627/2 4897869 4 photos MT1-4 Edger 362706 4857808 ELCauger K007-2 1 photos 36269 4897148 CUT1-4 Fedge3 F007-2/411-4 4 photos 362719 4897701 ECC auger CUTI-4 4 photos 362825 4897892 MT1-4/UAGMI CUTI-4 Edge 4 4 photos

C. Carlo

362875 4897698 Wetterns MHSZ-1B 5 photos Horsender C jantal waterbody agenment 362887 499 7718 MASZ-19501 4 photos 362967 4897733 096M1/CUT)-4 4 photos 363004 4897756 FOCZ-11CUTI-4 FOZZ-1Edge 4 Spheros 363073 4897703 FOCZ-1/CUTI-4 1902-1 Edge 5 4 photos Leaves 0 EATU 1611 363099 4897753 FOCZ-1/EUFF-4 FUEZ-1 Edge 6 4 photos 4 photos 363081 489 7740 4 photos CVM1-

Dr. Lik

36/952 4900497 BHR5307 " BARS 1808 361998 4900438 #CC soil augu MAMM-3B 4 photos # CC soil auger 1 photos - OSPR 1900 flying ver Inject location Spoke with land use about land use & wellands

7) 460 Fall

2012-06-09 Emestoun Dave Jolly 300 ELC, Worterbody assess Wind: 1 Clard: 10/10 Appendix C 0930-0930 Temp: 16,5° €19,700 362023 4900143 4 photos 6 1101 Orange Sulphur brottertly BAR5304 362415 4899887 FLC auger 3W02-2 ELC · EWPE 12/8 · EAKE 1302 Virginis chethance ·WIFL 362360.4899908 44401307 Area = 4.89 ha delineated f photos alvar 362363 4899846 El Conger MEMM3 5 photos ELL

watercourse and -

It in the Kain

regolation is &TH VOCCI 362 953 4898668 WADZ Full waterbody anement Westerbody uses 4 photos 60 m break 363021 4 WA,02301 4898763 Westercourse Full Waterbody uness 362960 4898806 4 photos WAD 2382 60 m break in welland 362930 489 Spyl 4 photos

June 9, 2012 re giodan 361903, 4900443 WAS WAS ELC.

ERUMON 302 12:50 pm 1 Majarch observed 0362444, 4900082 Milkweed, possibly to by eggs - suitable une along stopover/stoying delineation & Marcock Stages 301 N 75 plants of con - 5 phoss - 1 Gardersneke at Some time and ylace as Manarch (17:50) RERNMON 303 13.06 Called Morand Aray - N/60 Mikmerd 0362381, 4900190 - 4 photos from the waypoint

No.352		
	ERNEAME 302 13:30 - EAME 8 of waypoint,	
	362353,4899874 AULØIEDGEI - 7 choto 14:120 - North is South is 1	Alvar,
	0362352,4819874  ERNMON304 2Mm n 141,20 renamed the ways ERNMON303 4 photos	oft of
Pete in the hain		

height = NI5m cautly height=" on North Side Rxacin on 11 tox5cm DBH= 38.5 Peelm Bark = None partly alive more alive at dop from species = Eastern White Coader Canopy = 60% hollow on bottom JTM-362774, 4898959 deleted because not an ERNMON, Extraneous point. All one need is the BFNRS. 363002, 4898745 -450 Milkweed 1839 plants 4 photos called Horarch

SWH601	- I Red bellied snake
362975,489860	
1000000	deletal because not an ERMON Extremens
	FROMON ENTRANCOS
ERNMON3	06 - South side
2/3000 100	2771
363009, 48°15	8201 of the wetland
	-acrostos
	_ 400 Milkured
	plants
	-4 Photos
	+ blinded + c 11. 2
	Howard & called House & Storgery 204 BEMES 30 10 8
	Production of the second
	15 MK > 30 P D
C. 111 (2)	
SWH602 FOSTOS	of Control Cont
363021, 42	2-3 calling
110000	2 3 carring
4898763	
WEODEDGE -	- Where WEØ2
362456	mersects with
489 8897	120 m buffer border
	-4 photos
•	

Cte in the Rain

OFFSITE
21:24
Wind = 1
Cloud = 10
To = 16,5°C
Precip = Ø

2012-06-10 Ernestown Dave Jolly 300 ELC+ owes Temp: 24.5 - 26.2° C 930-1945 Wind: 1-2 Clard 3/10-30 362257 4899658 MAMMI-3C 1130 White funks 1130 Tudre pottes slenner 362571 4898815 WEØZ EDGE 2 water body 02 meets MEM3 362904 4898175 F009-4 ELC 124 auges 4 photos

0

362648 489 8754 & photos WAD 2303 Partial water-body assessment 362773 4598758 4 mi-1 Fedgel o CORA (33) 4 photos 362863 489736 (UM)-130) 3622889 4898737 4 phytos (UM)-1302 Indextage of com-18 Form 362917 4898677 4 photos MEMM3 EDGE4 - Interface between MEMM3 South= EVMI-1 762794 4988366 FUCE LEGEL Interfue of Mys 3-18

Ste In the Ru

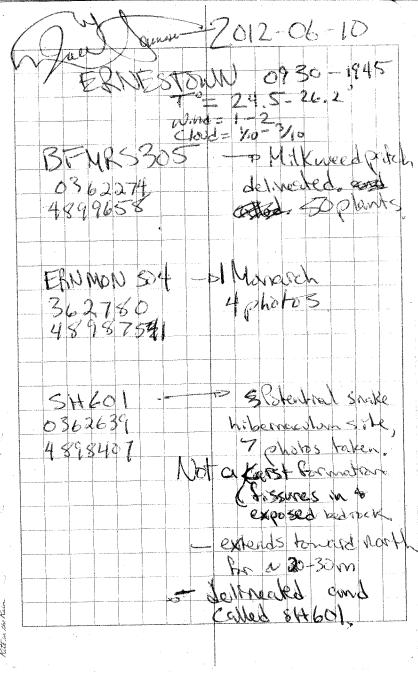
362591 489880 160C1-21Edge 2 Interfuce of POG1-2 4 phoos 362611 4898383 FOZ1-Z 4 photose Kic 362638 4898409 FUL 1-2 Edge3 Yphotos interface of FUCZ-Z 362784 489850S ERN Mm 36) 363099 4898520 3083 4818553 \* Contains due spotted salamander larvae and tadpoles

To to the Par

113

362241 4900211 B080301 ALVOIEDGE! 362232 4900307 P Edge of Alvar 4 photos - Stopped here because everything north of the alvat

0



-Donaide Eastern Garder Snake on Karst surface. SWH-603 Ant we long at to take previous day)

Project · Ernestown Wind Park Date : July 15,2012 Time : 1000-1830 Wind: 2-3 %C.C: 100 Temp: \$ 27°C Precip: </mm Investigator: Martine Estachan Hatch "Rite in the Rain

	SW601-2	Sieen Ash	organic becides	761 618
	land - Su			GC - Dominated by grass sp. (photos)
GPS	Photo	Direc	how	(anopy Green ASh four mona grass?
596	7637	SE		
597	7638	N		Soil sample
598	7639	W		
599	7640	5	deer bedding	CHOCIAIC - ()-1/CAL
599	7641	NW	gias poodlard	MOTTE S (a) I CM W
600	7642-764		Soil sample	Some fabric material
601	7645	5	ged canons 2	gly @ 11 cm - 80 40
超	7646#	W	32	
.602	. 7447	5E	worlland	Om - 40-60
603	7648	5	hendlock)	
613	7649	5	noisetaic	oh 60-100cm
604	7650	N	west orde of	
604	7651.52	N	VCG.	North Bounday Circles on
605	7653.	NW	southfide of	horistan along purpher.
605	7654-56	N	crot side	gray dogwood (northern box
606	7657		Out 1	Wild passing (photo) (R) or handout
	readed combi	rat (		(led caran gross (a)
TILES				Alabang day (R)
607 7	LEV	NE	Northeast	fermion mill (R)
100) +	8 78		Corner	green out 10 understony
-			*	common burdoct (K)
				"Rite in the Rain"

West side Mclara East: Side - narrow leaved cattal (D) - Red canary gran (D) grass of (A) golderod g > Bow with Ry wild carret Stender wellow (R) goldi-roll sp- photo to leed canan scans (0) Small fineded butrush (C) Snall- Souted billack (N small stem bulnush (K) 12 SWP fox sedge weeks V- sedy - fruit are spread - pat South rede cattoul tegan ticks 2(R) speadweel ? (R) wild paisnip (photo) R. cross sp(R) Water Crossing Location com downsod (1) Common milkweed (photo) - existing gravelldist crossing ~ 4-500 wide South side of 608 71059 Waxcalourse 609 north side of 7660 watercourse-

				- 6	The yellow
610	•				- himsof of parang of (A)  tall  yellow sunflower of 7 photo 7662-7663
	#11)				
(Netland	(1)			•	yallas (R)
1011	2	. 1	along sattern	eda 🗲	= Gray dogwood (A) (D) 7666-7667
611	7661		~		Once ash
611		7603			Awl. Fruited redge
	7664	-7678	V·CS.	•	milkweed Sp (R) 7664
1.00	7679		· 6161	1 desartos	Bebbs sedge 7 7665
612	76679	5,	1/2	hitel	American elis (0)
612	7680	N		ver elevat	Timothy Haz (a)
613	7681	SW.		y desurors	n- sigle
614	7682.8	4 N	Cas	eigillar	S(40) Sp(6) 7675-7676
614	7685	E			
615	7694	N	catt	and o	Golden rod 50 2677-7678 - busherfly (7717)
815	7695-90	0	Ve	5	618 soul sample - too dry loose for
1615	7697		Cat	tail	Sis no calcareous
616			Sal	Sample	MEMON 2
					(614) CAREPULLAN PHOTOS:
					100-by gala, soils exposed
5	wall on	tail			green ash scedlings
				•	milkweed &
					mothy gras
6					yellow 51. (0)
Turken	Valture-				Wild aright (0)
Lines				•	dairy fleature.
					and foot treeford
					. Oxe caye darsy "Rite in the Rain"

Cathar mash - 7694 photo red glover. bebbs sedge > 7686 callary (photo 7697 - Kat - thumb W- sidge . (R) Led range (R) 7687-88 (3) red faray sians Vervain 2 (R) 7689-7690 Sheabby St Johns wort Cay sedge sp. 7691-7692 (5 mall finited bullingh (0) AWI- fruited sedge (E) mosses (O) & Sported for prewell or wary 7698-29 V. Sedge (2) While pine Sapley (a) V Bonestop. 9706 Boneset? 12 d - ( clas fapling ( ) 7693) (R) Sedje 50 (1804 1-4e beste) 7701-7704 (0) Spl port flance - 9705-7707 (D) con vetch (R) 41000 loosestile 7 photo 7715-7716 (R). V-sidge (O) purple Planer (gredwill)? 7718 (P) Stander willow (R) 7708 NOW ( Wied Sp ( 12) 1921 veg. sedy (1) 2709) Catterplan 7710-7711 616) Sol 50mple. Willow Sp - 7712-7913 3 Saftstern bulgues (0) 7714 -unable to obtain soil sample sol was too look for anger guy dogusoil along per den geen ash saplings Loam, sand or SiS Much 50 7722-7724 - Wely shallow + but a rock an 617) Soil sample 5cm part sur if it wa bedivek OM = 20 cm 9= 6 cm 20-30 Classia SC SiCL Rete in the Rain

(619)	- Pone	dance				A				0		
		~	1		-		621	7726	W		meadon	-
	Vhoto	7725	W		-	-	622		· W			
(620	Reed	Cana	, Gn	us					- 7742		veg	
					•	7	23		3 W		debris	
	-							7744	NW		debis	
						6	24	7745	W		desing	
								7746	W		gravel	Substrate
			-		•	P 6.	25	7747	N		cattail	
							7	7748-49	_		veg_1	predwell)
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			1			5	23				NE ,	of of others.
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		4				6	31	7762	S		debi	
-									-			
		1.4										
•		344										2.
								O.		-		
											"Rite.	in the

Time: 0900 - 1030 = 1500-1800  %C.C: 20  Temp: 32°C  Wind: 1-2  Precip: 8	635 7772 /8F 636 7774 SC. 638 7779 N 639 7780 NE 640 7781 W 640 7782 NW	Rock Rock  Rock  died  died  died  fixed can  grand  contain  Stock  Corner  Corner  Stock  Corn
		"Ete in the 1

mater planta 10  marow leaved cuttail  softstem bulench  gc			Rail
Polation - large boulders  Polation - large boulders  Polation - pokenhal snake hibring a cula  Scarchal area - no snaker or  Poloos  Sheds formed (0930.0945 am)  Poloos  Pol	7783	S	reed cana
Poloon  - searched area - no snaker or  - searched area - no snaker or  - sheds formed (6930-0945 am)  Poloon		55	27
Shedo formel (6930.0945 am)  Polocy  Polocy  Porocy  Porocy  Fox Sedge ? triangular ikm photo 7776  British sedge?  posto 7777 - 1778  Sup  mater planta  parow leaved cuttail  50/45 km bulenoh  90	, [	E	4.
Ford	7786	N	4
Poroto Po	9787	N	OAO
four marria gras ? photo 7775  fox sedge ? triangular skin photo 7776  Brinish sedge ? photo 7776  photo 7777 -7778  Swo  mater plantai  mairow leaved cuttail  softskin bulinoh  gc	7788	E	DAC
four marria gras ? photo 7775  fox sedge ? triangular skin photo 7776  Brinish sedge ? photo 7776  photo 7777 -7778  Swo  mater plantai  mairow leaved cuttail  softskin bulinoh  gc	7789-94	0.5	vee
four marra grass? photo 7775  for sedge? triangular skm photo 7776  Brownish sedge? photo 7776  photo 7777-7778  Swo  mater planta  Fortstern bulench  96	7795	M.	
foul marra grass? photo 7775  fox Sedge? triangular skm photo 7776  Brunish sedge?  photo 7777-7778  Swo  mater planta  rairow.leaved cuttail  softstem bulench	7796	N	1
for sedge ? triangular skm photo 7775  Branish sedge?  photo 7777  photo 7777-1778  Sub  mater planta  rairow.leaved cuttail  softstern bulenoh  96	7797	3	2 (
Marter planta photo 7777 - 7778 Sub mater planta (10 marrow leaved cuttail 110.	7998-7	804	ves
Marrow leaved cuttail  50/54cm bulench  90	- green a	oh (8)	
Marrow leaved cuttail  50/5/cm bulench  90		-	
	5-5		
	(R) Popla,	-	
	Sparce	0	Council woods
	W- sedge (P)	d	lebis (A)
	for redge?	5.1	<10db4 (0)
	war seda		

Meadow	real	house	6	Access road	area		
			6	-Shallow	2002	expose	2 bedrock
P01008	7805	SE	6				
P01009	7806	N					
(1	7807	3		·			
71	7808	W		•			
PO1110	7809	N	access from	Red reda			
101111	7840	\$15	access rous				
PO11/2	7811	N	acces rous	•			
101/12	78/2	NW					
P01/12	7813	N	bedrock Red cross				
.701113	7830	MW	100 cedar				
PD113	7831	NE.					
PO114	7837	1. W	pirals red				
P0115	7840	50	old barn				
Po116			Sample 1				
P0117	7844	5W	Thicket				
10118			Sol Sample				
		-					
					2		
	3			•			
			•				
							Rite in the Rain

## **APPENDIX C- ELC DATA CARDS**

ELC SOILS ONTA	NPIO.	POLYGO DATE:	2013	2-06-07	-3/W	EØZ	-west of	tractor land			
SOILS ON I	AKIO	SURVEY		Ds							
[D/A   DD   D	D	1 4 2 2 2 4	SLOP			<u> </u>	UTM	Lugaring			
<u> </u>	Position 4	Aspect ప్రా	% 2	Type	Class	Z	EASTING 362289	NORTHING			
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DEPTH TO/OF			<u> </u>		<u> </u>	<u> </u>					
MOTTLES	50	4.0	Γ		1						
GLEY	NZA			,							
BEDROCK	712										
WATER TABLE	7121	0 Cm									
CARBONATES	<del> </del>	) 67M				٠.	·				
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PORE SIZE DISC#1		<u> </u>									
PORE SIZE DISC #2			ļ				<del> </del>				
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SOIL SURVEY MAP					r		·				
LEGEND CLASS			<u> </u>		<u> </u>		1				

ELC	SITE: Frestown	
ELC	POLYGON: MAMMI-3/WEBZ	<u>.</u>
PLANT	DATE: 2012-06-01	
SPECIES LIST	SURVEYORS: DJ	

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

ABUNDANCE CODES:	R=R	ARE	O = C	CCAS	IONAL	-A =	ABUNDANT D = DOMI	TAN				
SPECIES			YER		COL.		SPECIES		LAY	'ER		COL.
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:	ELC	POL'	SITE: Expest own POLYGON: MAMM 3/WED2  DATE: 2012-06-07									
	WILDLIFE		E: 2012 - VEYORS: L	06	-07		·					
	WILDLIFE			900		END TIME: 2000						
TEMP	(°C): /\$.5			WIND:	4.	,		Mas				
				ratro		PRECIPITATION:	1 - 400	W. C. Color				
	ENTIAL WILDLI	7		Mary	<del></del>		<del></del>					
101	VERNAL POOLS	1 1 1/	TOITAL.		100	SNAGS		·				
	HIBERNACULA	<del></del>	· · · · · · · · · · · · · · · · · · ·		1	FALLEN LOGS						
						T ALLEN LOGO			******			
SPE	CIES LIST:				L							
TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#			
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B	505P.	VO	4	•					<del>                                     </del>			
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4	Common ringles	08		O .								
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FAUI	NAL TYPE COD B = BIRD M = N			TOFAU	NA L	LEPIDOPTERA	F=F	ISH O=OTHE	 ER			
	ENCE CODES ( EDING BIRD - PO	SSIBL				•						
			SUITABLE HABITA	AT .	SM = 5	SINGING MALE			,			
BREE	DING BIRD - PRO											
	**		RRITORY IXIETY BEHAVIO	UR		SPLAY EST BUILDING		P = PAIR V = VISITING NE	EST			
BREE	DING BIRD - CO	NFIRN	IED:				١					
DD = DISTRACTION NE = EGGS						JSED NEST OUNG		FLEDGED YOUR				
		AE = N	EST ENTRY									
OTHE	R WILDLIFE EVI	DENC	E:									
		OB = 0	DBSERVED		۷0 = ۱	OCALIZATION		CA = CARCASS				
	× ·	DP = [	DISTINCTIVE PAR	TS		HOUSE/DEN		FY = EGGS/YOL				
	٠.		RACKS THER SIGNS (spe	acifu)	FE = F	EEDING EVIDENC	) -	SC = SCAT				
	•	<i>-</i> . <i>O</i>	cicito (spe				_ 1.	. 1				

ELC		SITE:	Erneston	W.	POLYGON:	MAMMI -3	IWE 02.
COMMUNITY SURVE			YORS: DI	DATE:	TIME: start	The Course	
DESCRIPTIO	N &		2	412-06-07	end	1.9100	
CLASSIFICAT	TION	UTMZ: S	UTME: 362	(289	UTMN: 489	9766	
POLYGON DES	CRIPTIC	ON:					- v
			TOPOGRAPHIC		PLANT		
SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY	
□Terrestrial	□Orgar	ic	□Lacustrine	ØNatural	□Plakton	□Lake	
⊠Wetland	⊠Miner		⊠Riverine	☐Cultural	□Submerged	□Pond	le ·
□Aquatic	□Paren		□Bottomland		□Floating-LVD	□River	,
·		Bedrock	□Terrace	r ty	⊠Graminoid	□Stream	
	□Basic		□Valley Slope		□Forb	⊠Marsh	
	□Carb. I	Bedrock	□Tableland		□Lichen	□Swamp	
***			□Roll Upland		□Bryophyte	□Fen	-
			Cliff		Deciduous	□Bog	
	* .		□Talus		□Coniferous	□Barren	·
			□Crevice/Cave □ □Alvar		□Mixed	□Meadow □Prairie	
SITE:			□Rockland	<u> </u>			
□Open Water			□Beach/Bar	COVER:	, ,	□Thicket □Savannah	
☐Shallow Water			☐Sand Dune	⊠Open.		□Savannan □Woodland	
Surficial Dep			□Bluff	☐Shrub		□Forest	
□Bedrock				□Treed		□Plantation	
	DTION.	J		1211000		Latitation	
STAND DESCRI	PHON:	· · · · · · · · · · · · · · · · · · ·	SDECIES IN OF	DED OF DEODE	ACINO DOLUNIA	105 (	ŀ
LAYER	нт	CVR	SPECIES IN OF	RDER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)	
1 Canopy	<u> </u>	CVR	(>> Much g	reater than; > Gr	eater than; = Abo	out equal to)	
2 Sub-Canopy	-4	<del>-</del>	(ARABL		N E/C		
3 Understory	4	-1		W		· · · · · · · · · · · · · · · · · · ·	
4 Grd. Layer	7	/	PASSATI-		4 CARRI	2012	
	1= >= 25n	n: 2= 10 - •		4= 1 - <2m; 5= 0.5			į.
				25%; 3 = >25 - 50		1	
STAND COMPO						BA:	· I
		· · · · · · · · · · · · · · · · · · ·				JDA.	
SIZE CLASS AN	ALYSIS	:	0 < 10	N 10 - 24	/25 - 50	N > 50	
STANDING SNA	GS:		2 < 10	N 10 - 24	A 25 - 50	N > 50	
DEADFALL / LO				<del></del>	25 - 50	N > 50	
ABUNDANCE CO	DES:	N = NON		= OCCASIONAL		r	r ,
COMMUNITY AC	GE:		PIONEER	YOUNG		OLD GRWTH	
		· · · · · · · · · · · · · · · · · · ·		1	(Z-3)	. (====:	
SOIL ANALYSIS	); 		DEDTUTO	10TT FO (0) FV	- n/12	0 1111	
1 - 7 (1 0 1 1 - 1		DEDTIL		MOTTLES/GLEY:	g = rv (rt	G = N/A	
MOISTURE:			OF ORGANICS:		· · · · · · · · · · · · · · · · · · ·	(cm)	
HOMOGENOUS/VAI				7/20	1	(cm)	F
COMMUNITY CI				e 1	ELC (	CODE	•
COMMUNITY			arsh		MA		
COMMUNITY		GANNO.	eadow n	rarch	MAM		
	COSITE:			marsh ecosik	MAMI		
VEGETATION	V TYPE:	RedCou	vary Grass Mine	sed Hecdou Mass	HAR MAN	UNITS.	
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SITE: **ELC** JUDM2-4 POLYGON: DATE: **SOILS ONTARIO** SURVEYORS: D SLOPE: UTM Dr Position EASTING NORTHING Aspect Class Type 6 362719 455 7101 20 SOIL 2 3 4 5 TEXTURE X Ozlim HORIZON ATICM TEXTURE COURSE FRAGMENTS **TEXTURE** COURSE FRAGMENTS **TEXTURE** COURSE FRAGMENTS **EFFECTIVE TEXTURE** SURFACE STONINESS 0SURFACE ROCKINESS **DEPTH TO/OF** Big MOTTLES **GLEY** BEDROCK 71 LOCK WATER TABLE 7120 cm CARBONATES 7120cm **ORGANICS** lam PORE SIZE DISC #1 PORE SIZE DISC #2 MOISTURE REGIME SOIL SURVEY MAP LEGEND CLASS

	ELC	POLYGON: CUTTY TUDM2-4													
	PLANT														
١		DATE: 20(2-06-08													
ĺ	SPECIES LIST SURVEYORS: O LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER														
	LAYERS:	1 = C	ANOF	Y 2	= SUB	-CANOF	Y :	3 = UNI	DERSTOR	RY 4 = G	ROU	ND (G	RD.) L	AYER	,
r	ABUNDANCE CODES:	R=F	RARE	0 = 0	DCCA!	SIONAL	_A =	<u>ABU</u> N	DANT D	= DOMIN	TAN				,
	SPECIES		LA'	YER		COL.			SPECIE	S	:	LA	YER	******	00:
	CODE	1	2	3	4	LUL.			CODE	Ξ .	1	2	3	4	COL.
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I	CIKRACK			0	Ő		1	10,	ACTIO	1		<u> </u>	<del>                                     </del>	17	i
I	UCMAMER	10	R	le	12	<del>                                     </del>	7	10	H AN	7		<del>                                     </del>	1	18	
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SITE:   COMMUNITY   DESCRIPTION & CLASSIFICATION   OUT 2	Г	FLA	<u> </u>	T		· · · · · · · · · · · · · · · · · · ·	1					
COMMUNITY DESCRIPTION & CLASSIFICATION   UTIME: \$10		ELC		SITE:	Ernost	POLYGON: (HTT-4 THOM2-4						
DESCRIPTION & CLASSIFICATION   Umac(2) UTME: \$62716	- 1	COMMUNITY SURVE			YORS:VA	DATE:		,				
CLASSIFICATION   UTMC		DESCRIPTION	S NC	ł	2012-06-08				6 )			
POLYGON DESCRIPTION:    SYSTEM   SUBSTRATE   FEATURE   FORM   Community   FORM   Community   Feature   Fea	L	CLASSIFICA	TION	UTMZ:(%	UTME: 362	719		1				
SYSTEM   SUBSTRATE   TOPOGRAPHIC   FEATURE   COMMUNITY												
SYSTEM SUBSTRATE FEATURE   FEATURE   FORM   COMMUNITY	Г											
Symetrial   Organic   Or		SYSTEM	SUBS	TDATE		1		00141411171				
Gwetland	H											
Candide Bedrock   Carb. Bedr					4 .		1	· · · · · · · · · · · · · · · · · · ·				
Candidate Bedrock   Candidate   Candidat						, a Cultural	1					
Basic Bedrock   Carb.	1		L		1 .							
Carb. Bedrock   Difableland   Carb. Bedrock   Difableland   Carb. Carb. Bedrock   Difableland   Carb. Carb	1	,						· ·				
Roll Upland   Cliff   Bryophyte   Beng   B							1 :					
SITE:    Crewlee/Cave		`		,					·			
SITE:    Crevice/Cave												
SITE:   Crevice/Cave   DAlvar   DMixed   DMixed   DMeadow   DPrairie   DAlvar   DRockland   DBeach/Bar   DSand Dune   DOpen   Dopen   District   DSavannah   DWoodland   DForest   DIstrict   DISTRICT			ĺ					-				
SITE: SITE: Shallow Water Shallow Shallo	1											
COVER:		0.75		ì			Limixed		. "			
Gopen Water	1	SHE:			□Rockland	<u> </u>						
Shallow Water   Sand Dune   Gopen   Gwoodland   Grest   Gwoodland   Grest   Gwoodland		⊒Open Water				COVER:	`	· 1				
Signature   Sign		⊒Shallow Water				□Open						
STAND DESCRIPTION:   SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	Ç	Surficial Dep	x *		,			4				
STAND DESCRIPTION:  LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> Much greater than; > Greater than; = About equal to)  1 Canopy						/						
LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> Much greater than; > Greater than; = About equal to)  2 Sub-Canopy		<u></u>	DTION:					<u> Папавон</u>				
LAYER	٦	TAND DESCRI	P HON:	1 1	ODEOLEO IN OD	255 05 2505		<del></del>				
1   Canopy		IAVED	UT.	CVB					•			
2 Sub-Canopy 3	1		ПІ	CVK			eater than; = Abo	ut equal to)				
3 Understory	_		1/2	40 >	FIRTU	US - V-M	RIVER					
A Grd. Layer   6				3	V 1 13 10 10 10 10 10 10 10 10 10 10 10 10 10	C C (1) (10 10)	57/1000					
HT CODES: 1= >= 25m; 2= 10 - <25m; 3= 2 - <10m; 4= 1 - <2m; 5= 0.5 - <1m; 6= 0.2 - <0.5m; 7= <0.2m  CVR CODES: 0 = None; 1 = >0 - 10%; 2 = >10 - 25%; 3 = >25 - 50%; 4 = >50%  STAND COMPOSITION:  SIZE CLASS ANALYSIS:			$\frac{1}{\sqrt{2}}$	-7 2	C 1800 A	- SPICTUISI	CORRE	7 R				
STAND COMPOSITION:  SIZE CLASS ANALYSIS:  SIZE CLASS ANALYSIS:  STANDING SNAGS:  C < 10  C   10   10 - 24  C   25 - 50  STANDING SNAGS:  DEADFALL / LOGS:  N = NONE  R = RARE  C = OCCASIONAL  A = ABUNDANT  COMMUNITY AGE:  PIONEER  PIONEER  YOUNG  MID-AGE  OLD GRWTH  SOIL ANALYSIS:  TEXTURE:  DEPTH TO MOTTLES/GLEY:  DEPTH TO MOTTLES/GLEY:  DEPTH TO MOTTLES/GLEY:  COMMUNITY CLASSIFICATION:  ELC CODE  COMMUNITY CLASSIFICATION:  ELC CODE  COMMUNITY SERIES:  COMMUNITY SERIES:  COMMUNITY SERIES:  VEGETATION TYPE:  INCLUSION:  INCLUSION:  COMPLEX:  TITUP  INCLUSION:  COMPLEX:												
STAND COMPOSITION:  SIZE CLASS ANALYSIS: R < 10 N 10 - 24 N 25 - 50 N > 50  STANDING SNAGS: R < 10 N 10 - 24 N 25 - 50 N > 50  DEADFALL / LOGS: R < 10 N 10 - 24 N 25 - 50 N > 50  ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT  COMMUNITY AGE: PIONEER YOUNG MID-AGE OLD GRWTH  SOIL ANALYSIS:  TEXTURE: D DEPTH TO MOTTLES/GLEY: g = 13 CM G = MOISTURE: D DEPTH TO BEDROCK: Y (20 M) (cm)  COMMUNITY CLASSIFICATION: ELC CODE  COMMUNITY CLASSIFICATION: ELC CODE  COMMUNITY SERIES: CATALOGUE COMMUNITY SERIES COMMUNITY SERIE		CVR CODES:	0 = None	11, 2-10 11 = >0 -	10% · 2 = >10 in,	4-   - \2m; 5= 0.5 - 5% · 3 - \25 - 500	· < im; o= 0.2 - <0.5i /· 4 - >500/	m; /= <0.2m				
SIZE CLASS ANALYSIS: R < 10 N 10 - 24 N 25 - 50 N > 50  STANDING SNAGS: C < 10 N 10 - 24 N 25 - 50 N > 50  DEADFALL / LOGS: N < 10 N 10 - 24 N 25 - 50 N > 50  ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT  COMMUNITY AGE: PIONEER YOUNG MID-AGE OLD GRWTH  SOIL ANALYSIS:  TEXTURE: DEPTH TO MOTTLES/GLEY: g = 13 Cm G = MOISTURE: DEPTH TO BEDROCK: Y (20 at (cm))  HOMOGENOUS VARIABLE DEPTH TO BEDROCK: Y (20 at (cm))  COMMUNITY CLASSIFICATION: ELC CODE  COMMUNITY CLASS: Community Series: Community Seri					1070, 2 - 210 - 2	578, 5 <b>-</b> 225 - 507		<u> </u>				
STANDING SNAGS:    C   10	12	I AND COMPO	SHION	•				BA:				
STANDING SNAGS:    C   10	[0]	ZE CLASS AN	AI VOIC		i2   _ 10	A/140 04: 1	4/05 50 1	411 . 50				
DEADFALL / LOGS:  ABUNDANCE CODES:  N = NONE  R = RARE  O = OCCASIONAL  A = ABUNDANT  COMMUNITY AGE:  PIONEER  YOUNG  MID-AGE  OLD GRWTH  SOIL ANALYSIS:  TEXTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G =  MOISTURE:  DEPTH OF ORGANICS:  HOMOGENOUS/VARIABLE)  DEPTH TO BEDROCK:  COMMUNITY CLASSIFICATION:  ELC CODE  COMMUNITY CLASS:  COMMUNITY SERIES:  COMMUNITY SERIES:  UNDESTINATION  ECOSITE:  WINCLUSION:  INCLUSION:  COMPLEX:				<u>'•                                    </u>		·		N > 50				
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT  COMMUNITY AGE: PIONEER YOUNG MID-AGE OLD GRWTH  SOIL ANALYSIS:  TEXTURE: DEPTH TO MOTTLES/GLEY: g = 13 cm G =  MOISTURE: DEPTH TO BEDROCK: 7 (2 0 cm)  HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7 (2 0 cm)  COMMUNITY CLASSIFICATION: ELC CODE  COMMUNITY CLASS: Community C							$\mathcal{N}$ 25 - 50	√ > 50				
SOIL ANALYSIS:  TEXTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G = MOISTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G = MOISTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G = MOISTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G = MOISTURE:  (cm)  HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7 (2 left (cm))  COMMUNITY CLASSIFICATION:  ELC CODE  COMMUNITY SERIES:  COMMUNITY SERIES:  COMMUNITY SERIES:  DEPTH TO MOTTLES/GLEY: g = 13 cm G = MOISTURE: Graph (cm)  ELC CODE  COMMUNITY SERIES:  COMMUNITY SERIES:  DEPTH TO MOTTLES/GLEY: g = 13 cm G = MOISTURE: Graph (cm)  THE COMMUNITY CLASSIFICATION:  ECOSITE: MOISTURE: Graph (cm)  VEGETATION TYPE: Graph (cg) (cm)  INCLUSION:  COMPLEX:	_					<b>//</b> 10 - 24	M 25 - 50					
SOIL ANALYSIS:  TEXTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G =  MOISTURE:  DEPTH OF ORGANICS: 1 4 (cm)  HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7 120 20 (cm)  COMMUNITY CLASSIFICATION:  ELC CODE  COMMUNITY CLASS:  COMMUNITY SERIES:  COMMUNITY SERIES:  COMMUNITY SERIES:  VEGETATION TYPE:  INCLUSION:  COMPLEX:	Al	BUNDANCE COI	DES:	N = NON	E R = RARE O	= OCCASIONAL	A = ABUNDANT		* *			
SOIL ANALYSIS:  TEXTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G =  MOISTURE:  DEPTH OF ORGANICS: 1 4 (cm)  HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7 120 20 (cm)  COMMUNITY CLASSIFICATION:  ELC CODE  COMMUNITY CLASS:  COMMUNITY SERIES:  COMMUNITY SERIES:  COMMUNITY SERIES:  VEGETATION TYPE:  INCLUSION:  COMPLEX:	C	OMMUNITY AC	GE:		PIONEER	✓ YOUNG	MID-AGF	OLD GRWTH				
TEXTURE:  DEPTH TO MOTTLES/GLEY: g = 13 cm G =  MOISTURE:  DEPTH OF ORGANICS: 1 g (cm)  HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7 (20 to (cm))  COMMUNITY CLASSIFICATION:  ELC CODE  COMMUNITY SERIES:  COMMUNITY SERIES:  COMMUNITY SERIES:  UNDESTRUCT OF THE COMMUNITY SERIES:  VEGETATION TYPE:  INCLUSION:  COMPLEX:	S	OIL ANALYSIS							•			
MOISTURE: DEPTH OF ORGANICS: 14 (cm) HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7 120 EH (cm)  COMMUNITY CLASSIFICATION: ELC CODE  COMMUNITY CLASS: Confidence of the confidence of	-		<del>,                                    </del>		DEDTH TO M	OTTI EQIQLEY-	0- 13.4	C -				
HOMOGENOUS VARIABLE DEPTH TO BEDROCK: 7 120 64 (cm)  COMMUNITY CLASSIFICATION:  COMMUNITY CLASS: Community Series: Commu	-		<u> </u>	DEPTH C			<del></del>					
COMMUNITY CLASSIFICATION:  COMMUNITY CLASS:  COMMUNITY SERIES:  COMMUNITY CLASSIFICATION:  COMMUNITY CLASSIFI	_							`				
COMMUNITY CLASS: CATAGORILICALE CATAGORILICALE COMMUNITY SERIES: CATAGORILICALE C						1202		***************************************				
COMMUNITY SERIES: CATHOLICATION CATHOLICAN COMPLEX:  COMMUNITY SERIES: CATHOLICAN CATHOL	<u>((</u>			CATION				ODE	* * * * * * * * * * * * * * * * * * * *			
VEGETATION TYPE: The liver Type  INCLUSION:  COMPLEX:					Thank y	west		1H				
VEGETATION TYPE: Grand designed Complex Thurse Type  INCLUSION:  COMPLEX:				- CU	THE WITH	niket		THU				
INCLUSION: COMPLEX:	<u> </u>			<u> </u>	of cultival	mexet Euch	M=1	1HOM				
INCLUSION: COMPLEX:		VEGETATION	TYPE:		LOGICOU CENT	many according	S CHIL	-474mm	-4			
COMPLEX:		INCL	USION:		77	- 1881-282-862						
Notes:		CON										
	No	tes:										

ELC		SITE:	Emertina		POLYGON: MASMI-1 W					
COMMUNITY			YORS: D1	DATE:	TIME: start 0940					
DESCRIPTION &		OUNT		2012-06-08	end					
3 L		UTMZ-/SA		446	UTMN: 4898	200				
POLYGON DESCRIPTION:										
	TOPOGRAPHIC   PLANT									
SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY				
□Terrestrial	□Orgar		□Lacustrine	⊠Natural ■	□Plakton	□Lake				
₩etland	<b>⊠</b> Miner		□Riverine	☐Cultural	□Submerged	□Pond				
□Aquatic	□Paren	t Mat'l	□Bottomland		□Floating-LVD	□River				
	□Acidic		☐Terrace		⊠Graminoid	□Stream				
′	□Basic		□Valley Slope		□Forb	⊠Marsh				
	□Carb. I	Bedrock	[☑ [ableland		□Lichen	□Swamp				
			□Roll Upland		□Bryophyte	□Fen				
1			□Cliff		□Deciduous	□Bog				
		·	□Talus -		□Coniferous	□Barren				
			☐Crevice/Cave		□Mixed	□Meadow				
SITE:			□Alvar			□Prairie				
			□Rockland	COVER:	,	□Thicket				
□Open Water			□Beach/Bar			□Savannah				
☐Shallow Water	y - 1		□Sand Dune	Open		□Woodland				
Surficial Dep			□Bluff	□Shrub		□Forest				
□Bedrock □Treed □Plantation										
STAND DESCR	IPTION:									
	•			DER OF DECRE	4.	, , , , , , , , , , , , , , , , , , ,				
LAYER HT CVR (>> Much greater than; > Greater than; = About equal to)										
1 Canopy Z 1,2 PRAPENS > JUNVIRG										
2 Sub-Canopy 2   COR ORL) > SM COR O 3 Understory + 3 7 V M (61) > TV D AR (41)										
3 Understory 4 Grd. Layer		3	TY PANG	The second secon	D> PHAM					
	1= >= 25n	2,3	25m: 3= 2 - <10m:	4= 1 - <2m; 5= 0.5	10/14 7 LYT					
				5%; 3 = >25 - 50°		611, 7- <0.2111				
STAND COMPO						BA:				
SIZE CLASS AN	ALYSIS	<b>;</b>	R < 10	<b>/</b> V 10 - 24	<b>№</b> 25 - 50	√ > 50				
STANDING SNA			N < 10		<b>№</b> 25 - 50	N > 50				
DEADFALL / LO			R < 10	√ 10 - 24	N 25 - 50	<b>√</b> > 50				
ABUNDANCE CO	DES:	N = NON	E R = RARE O	= OCCASIONAL	A = ABUNDAN	Γ .				
COMMUNITY AGE: PIONEER YOUNG MID-AGE OLD GRWTH										
SOIL ANALYSIS:										
TEXTURE: $C$ DEPTH TO MOTTLES/GLEY: $g = N/A$ $G = N/A$										
MOISTURE:	2		OF ORGANICS:	0		(cm)				
HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7/20 (cm)										
COMMUNITY CLASSIFICATION: ELC CODE										
COMMUNITY CLASS: Marsh MA										
COMMUNITY	SERIES:	Shic	11/W may	rsk	MAS					
EC	COSITE:	Cutte		ow marshcroste	MAST					
VEGETATIO	N TYPE:	Cattail:	mineral shal	www maist h	MASM	11-/				
INCL	USION:									
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POT	ENTIAL WILDL	IFE H	ABITAT:								
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BREE	DING BIRD - PO	SSIBL	E:								
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BREE	DING BIRD - PR	OBAB	LE:								
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		_						Page _/_	of 7		
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ELC	SITE: Encertown		
ELC	POLYGON: MASMI-1- U	POTIWERS	
PLANT	DATE: 2/02-06-08		
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ELC SOILS ONTARIO					SITE: Krylet Our POLYGON: MASMI-1 - WAD 7/WEBS DATE: 2012-06-08										
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	WILDLIFE	<b>————</b>	VEYORS: 7	70		END TIME: 7	540							
TEME	(°C): 22,6	CLOU	D (10th): 10/10											
,	DITIONS:		y. Mild	TAMEND.		JERECIPITATION.	74/							
	ENTIAL WILDL		//		·	•								
<u> </u>	VERNAL POOLS	11 1 11/	TOITAT.			SNAGS	**********							
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EVID	NAL TYPE COD B = BIRD M = N ENCE CODES ( EDING BIRD - PO	IAMMA (EV):	AL H=HERPE	TOFAU	NA L=	= LEPIDOPTERA	F = FI	SH O = OTHE	R					
DKĊ	DING BIKD - PO													
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BREE	DING BIRD - PR	OBABI	.E:		•									
	1 to 1	T = TE	RRITORY		D = DI	SPLAY	- 1	P = PAIR	*					
		A = AN	XIETY BEHAVIO	UR	N = NE	ST BUILDING	•	V = VISITING NE	ST					
BREE	DING BIRD - CO	NFIRM	ED:											
			ISTRACTION		NU = L	JSED NEST	FY =	FLEDGED YOUN	1G					
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OTHE	R WILDLIFE EVI	DENC	<b>=.</b>											
Jine	IV MITDLILE CAI		E: DBSERVED		VO - 1	OCALIZATION		04 - 0450465						
			ISTINCTIVE PAF		OCALIZATION		CA = CARCASS							
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٠.		. J	(3.3.10 (3)					Page (	of)					

ELC		SITE:	Ernestu	un	POLYGON:	MARIA	MASMI-LIWESS
COMMUNI.	TY		YORS: Di	DATE:	TIME: start	1530	
DESCRIPTIO		-		2-06-08	end	1540	
CLASSIFICA"	TION	UTMZ: 19		2887	UTMN: 480	7718	
POLYGON DES	CRIPTIC	ON:	(	•	· · · · · · · · · · · · · · · · · · ·		•
			TOPOGRAPHIC		PLANT		
SYSTEM	SUBST	RATE	FEATURE	HISTORY	FORM	COMMUNITY	
□Terrestrial	□Organ		□Lacustrine	⊠Natural	□Plakton	□Lake	
<b>Ç</b> Wetland	Minera		□Riverine	□Cultural □	□Submerged	□Pond	
□Aquatic	□Parent		☐Bottomland		□Floating-LVD	□River	
	□Acidic I		□Terrace		☑Graminoid	☐Stream ·	· · · · · · · · · · · · · · · · · · ·
	☐Basic E		□Valley Slope		√□Forb	Marsh	
	☐Carb. E	Bedrock	⊠Tableland		□Lichen	□Swamp	verified to
	,		□Roll Upland		□Bryophyte	□Fen	
·			□ Cliff		□Deciduous -	□Bog	<b>l</b> ·
			□Talus		□Coniferous	□Barren	! !
			☐Crevice/Cave		□Mixed	□Meadow	
SITE:			□Alvar		* .	□Prairie	
			□Rockland	COVER:	,	□Thicket	
□Open Water			□Beach/Bar			□Savannah	
☐Shallow Water			☐Sand Dune	Diopen,		□Woodland	
ØSurficial Dep	,	·	□Bluff .	□Shrub		□Forest	·
□Bedrock				□Treed		□Plantation	1
STAND DESCRI	PTION:				,		
			SPECIES IN OF	DER OF DECRE	ASING DOMINAN	VCE (up to 4 sp)	1
LAYER	нт	CVR		reater than; > Gr	· ·	· · · · · · · · · · · · · · · · · · ·	
1 Canopy	3	1	SALPET		outor than, 700	out oquur to;	1
2 Sub-Canopy	4	3		475C1A1	PA)	······	
3 Understory	5	/.Z	VERHA				
4 Grd. Layer	6,7	7.3	المراسي والمراسية	<del></del>	BEBBO	CARRET	h?
	1= >= 25m			4= 1 - <2m; 5= 0.5			
				5%; 3 = >25 - 509		1	
STAND COMPO						DA	1
31AND COMPO	SITION.			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	BA:	
SIZE CLASS AN	ALYSIS		<b>K</b> Z < 10	N10-24	<b>/</b> 25 - 50	> 50	
STANDING SNA	GS:		<b>1</b> < 10	N 10-24	25 - 50	N > 50	
DEADFALL / LO	GS:		<b>1</b> < 10	N 10-24	25 - 50	1 > 50	
ABUNDANCE CO		N = NON		= OCCASIONAL			<b>F</b>
COMMUNITY AC			PIONEER		MID-AGE	·	
SOIL ANALYSIS					•		
			DEPTH TO A	OTTLES/GLEY:	n = # 23	G= NIA	
MOISTURE:		DEPTH (	OF ORGANICS:	D A	9-74-/	(cm)	1
HOMOGENOUS/VAI			O BEDROCK:	>120		(cm)	
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COMMUNITY			<del> </del>	13		CODE	3
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COMMUNITY		Sha	How mar	<u>5h</u> ,	MA>	57.	4
	COSITE:	Gramn		Unamoveh & cosife	MAST	<i>V/ I</i>	
VEGETATION	N TYPE:	Catten	l minieral shall	Louis marsh	MASK	11-1	
INCL	USION:	<del> </del>		- 1 79°	**	· · · · · · · · · · · · · · · · · · ·	1
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LAYER	нт	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> Much greater than; > Greater than; = About equal to)
1 Canopy	1	2	PARDELT
2 Sub-Canopy	Z,	2	SALPETI
3 Understory	4	4	RYAMRUN >> PASSATI = PHLPRAT
4 Grd. Layer	5	l	BIDFRONZ RANSCEL

HT CODES: 1= >= 25m; 2= 10 - <25m; 3= 2 - <10m; 4= 1 - <2m; 5= 0.5 - <1m; 6= 0.2 - <0.5m; 7= <0.2m CVR CODES: 0 = None; 1 = >0 - 10%; 2 = >10 - 25%; 3 = >25 - 50%; 4 = >50%

STAND COMPOSITION	:							BA	
SIZE CLASS ANALYSIS	<b>3:</b>	R	< 10	R	10 - 24	ĪN	25 - 50	N	> 50
STANDING SNAGS:		N	< 10	N	10 - 24	TA	25 - 50	ko	> 50
DEADFALL / LOGS:		12	< 10	N.	10 - 24	N	25 - 50	N	> 50
ABUNDANCE CODES:	N = NON	E R	=RARE O	= 0	CCASIONA	L A	= ABUNDAN	Ť .	***************************************
COMMUNITY AGE:			PIONEER	×	YOUNG	3	MID-AGE		OLD GRWTH
SOIL ANALYSIS:				.*					
TEXTURE:		D	EPTH TO N	ΙÓΤΊ	LES/GLEY	: g =	NA	G:	= NIA
MOISTURE: 5	DEPTH (		RGANICS:		* * * * * * * * * * * * * * * * * * *			(cn	
HOMOGENOUS (VARIABLE)	DEPTH 1	O BE	DROCK:	95	2120			(cn	1)
COMMUNITY CLASSIFI	CATION	:	•	. :			ELC	COI	DE
COMMUNITY CLASS:	M	ar	5 h	,			MA	····	

	*	
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Moudow warsh	MAM
ECOSITE:	Mineral meadown marsh exosite	MAMM
VEGETATION TYPE:	Reed canary grass mineral meadow was horse	MAMM1-3
INCLUSION:		
COMPLEX:		

Notes:

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	ELC WILDLIFE	DAT	YGON: MI	₩₩ = & 6 ₩	1-3	/WEØS	b		
				<u>1-9-</u>		END TIME:	18340	<u>/</u>	
	(°C): 22°	CLOU	D (10th): 8/パロ	WIND:	Z	PRECIPITATION:	Ni	L.	
COND	TIONS:								
POT	ENTIAL WILDL	FE H	ABITAT:			•			
	VERNAL POOLS	· · · · · · · · · · · · · · · · · · ·				SNAGS			
	HIBERNACULA				X	FALLEN LOGS			
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SPE	CIES LIST:								
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	NAL TYPE COD B = BIRD M = M ENCE CODES (	IAMMA		TOFAU	NA L=	= LEPIDOPTERA	F=F	ISH O = OTHE	R.
	DING BIRD - PO		E.						
			E. SUITABLE HABITA	AT.	CM = 0	INCINO MALE			
				417	2M = 2	SINGING MALE			
BREE	DING BIRD - PRO	OBAB	LE:						
		T = TE	RRITORY		D = DI	SPLAY		P = PAIR	
		A = AN	IXIETY BEHAVIO	UR	N = NE	ST BUILDING		V = VISITING NE	ST
BRFF	DING BIRD - CO	NEIDM	IED.						
DINEL	DING BIND - GO		DISTRACTION		NU 1 1	JSED NEST	FV -	ELEBOED VÔUI	
								FLEDGED YOUN	
		NE = E			NY = Y	OUNG	FS =	FOOD/FECAL SA	ACK
•		AE = N	NEST ENTRY						
OTHE	R WILDLIFE EVI	DENC	E:						
	<del></del>		DBSERVED		V0 = \	OCALIZATION		CA = CARCASS	
			DISTINCTIVE PAF	ets		OUSE/DEN		FY = EGGS/YOU	ING
			RACKS	113					NG.
				16 3	re.= F	EEDING EVIDENCI	١	SC = SCAT	
		31 = O	THER SIGNS (sp	ecity)			,	_ 1	. 7
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ELC	SITE: Ernestown		
ELC	POLYGON: MAYAMIS	/WEOS	
PLANT	DATE: 2012-06-08		
SPECIES LIST	SURVEYORS: Do	7.	*

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WADS - pond (natural)

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ELC	SITE: Emestain
LLC	POLYGON: FOET / FOCM 2-1
PLANT	DATE: 2012 · 06 -08
SPECIES LIST	SURVEYORS: DJ

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				R	<del> </del>	4	FRANIRG			ļ	0	
ULMAMER	K	K	R			4	THROFF				R	
ZATVATION,			10	0		4	P = 10 P [6]				R	
RHALAIM		<u> </u>	R	R		1	CARBREV			<u></u>	R	
RIBCYAN	<u> </u>	<u> </u>		R		]	ASTUULE				R	
PYSUPENS			İ	R		j	SOLJUNC				R	
RUBIDAR				R			GALLANC				R	
COMPACE			K	R		1	THADIO				R	
						1	HEPMER				R	
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	POLYGON:	FUL		FOCMZ-	<u> </u>		
		10- 210	6-0	8			
WILDLIFE		25					
	START TIME:	1150		END TIME:	120	)	
TEMP (°C): 19,3	CLOUD (10th): / 0	// WIND	. 1	PRECIPITATION:	1 -	7	
CONDITIONS:	(10) 1 Houde	// D TVINO		JENEOIETATION.		3 mm	· · ·
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	LDLIFE HABITAT:		, ,				
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SPECIES LIST:					-		
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FAUNAL TYPE (	CODES (TY):						
B = BIRD N	M = MAMMAL H = HE	RPETOFAU	NA L=	LEPIDOPTERA	F = F1	SH O=OTHE	R
EVIDENCE COD							
BREEDING BIRD							
	SH = SUITABLE HA	BITAT	SM = 5	INGING MALE		* *	
BREEDING BIRD	- PROBABLE:						
	T = TERRITORY		D = Dig	SPLAY		P = PAIR	
,	A = ANXIETY BEHA	MOLIB		ST BUILDING			·
		WIOOK	14 140	31 BUILDING	,	/ = VISITING NE	51
BREEDING BIRD	CONFIRMED:	•					
	DD = DISTRACTION	١.	NU = U	ISED NEST	FY = F	LEDGED YOUN	G
	NE = EGGS		NY = Y	OUNG		OOD/FECAL SA	
	AE = NEST ENTRY		•	= <del>-</del>			
OTHER U							
OTHER WILDLIFE	EVIDENCE:						
	OB = OBSERVED		V0 = V	OCALIZATION		CA = CARCASS	
	DP ≈ DISTINCTIVE	PARTS	HO = H	IOUSE/DEN	F	Y = EGGS/YOU	NG
	TK = TRACKS		FE.= FI	EEDING EVIDENCI	*8	SC = SCAT	
	SI = OTHER SIGNS	(specify)			• •		
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Γ	ELC	,	SITE:	Emesto	POLYGON: FGCC /					
ŀ	COMMUN		SI IDVE	YORS: DJ	DATE:	TIME: start				
	DESCRIPTION		SUKVE		012-06-08	J _	1150			
	CLASSIFICA		LITM7: 17		-579	end UTMN: リダ	1			
	OLYGON DES			OTHE. JEC	-5/!	101 (MIN. 437)	8201			
ſ	OLIGON DES	I	ON:	TOPOGRAPHIC	l	PLANT	ı			
	SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY			
E	Terrestrial	I <b>⊠</b> Orga		□Lacustrine	⊠Natural	□Plakton	□Lake			
	JWetland	□Miner		□Riverine	□Cultural	□Submerged	□Pond			
10	⊒Aquatic	□Parer		□Bottomland		□Floating-LVD	□River			
		□Acidic	Bedrock	□Terrace		□Graminoid	□Stream			
	, ,	□Basic	Bedrock	□Valley Slope		□Forb	□Marsh			
		□Carb.	Bedrock	<b>⊠</b> Tableland	,	□Lichen	□Swamp			
1			,	□Roll Upland		□Bryophyte	□Fen			
1				□Cliff	' .	□Deciduous	□Bog			
				□Talus	-	⊠Coniferous	□Barren			
L				□Crevice/Cave		□Mixed	□Meadow			
	SITE:	}		□Alvar			□Prairie			
				□Rockland	COVER:		□Thicket			
	Open Water		j	□Beach/Bar	COVER:	`	□Savannah			
	Shallow Water	٠.		□Sand Dune	□Open.		□Woodland			
	Surficial Dep	,		□Bluff	□Shrub		<b>⊠</b> Forest			
ᄕ	Bedrock				™Treed		□Plantation			
<u>s</u>	TAND DESCR	IPTION:								
				SPECIES IN OR	DER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)			
	LAYER	HT	CVR	(>> Much gr	eater than; > Gre	eater than; = Abo	ut equal to)			
	Canopy		4	JUNVIRO	SOULMA	MER				
	Sub-Canopy	2	3	RHACA	14					
_	Understory	3	z,3		RTRU		RIBCYAN			
4	Grd. Layer	6	2,3		>> BALL		PAMER			
	CVR CODES:	0 = None	n; 2= 10 - < ·· 1 = >0 -	25m; 3= 2 - <10m; 10%; 2 = >10 - 2	4= 1 - <2m; 5= 0.5 ·	- <1m; 6= 0.2 - <0.5	m; 7= <0.2m			
[67	TAND COMPO			10%, 2 = > 10 - 2	5%; 3 = >25 - 50%					
3	AND COMPO	SHON:	i		: .		BA:			
SI	ZE CLASS AN	ALYSIS	:	A < 10	R 10 - 24	N 25 - 50	<b>M</b> > 50			
ST	ANDING SNA	GS:	1	R < 10	R 10-24	N 25 - 50	V > 50			
DE	ADFALL / LO	GS:		R < 10	R 10-24	N 25 - 50	N > 50			
	UNDANCE CO		N = NON	E R = RARE O						
CC	MMUNITY AC	GE:		PIONEER	YOUNG	₩ MID-AGE	OLD GRWTH			
SC	OIL ANALYSIS	):								
TE	XTURE: /			DEPTH TO M	OTTLES/GLEY:	g= NA	G = N/A			
MC	SISTURE: /		DEPTH C	F ORGANICS:	19		(cm)			
но	MOGENOUS/VAF	RIABLE	DEPTH T	O BEDROCK:	19		(cm)			
CC	MMUNITY CL	ASSIFI	CATION			ELC (	ODE			
	COMMUNITY	CLASS:	For	est	<u> </u>	FO				
	COMMUNITY S	ERIES:	Cen.	Ferrus for	vest	EUC	•			
	EC	OSITE:	Dry-fre		erous Front Eusil	FOE ZI	POCM 2			
	VEGETATION	TYPE:	Dry-fres		· Coniferno	FAGE	FOCMZ-1			
	INCL	USION:	10123	· ' Y   **						
		MPLEX:								
Not	es:	* .					*			

Γ		F	LC		SITE: Emestrun										
			LU		POLYGON: FORT   FORM 7-1/WOBS										
	SC	DILS (	ONTA	ARIO	DATE:	20	12-06-	-08							
L			-	<u> </u>	SURVE		_p		· N ·		·				
	P/A	PP	Dr	Position	Aspect	SLOF %	Type	Class	Z	UTM EASTING	NORTHING				
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S	OIL SUF	RVEY	MAP				,								
	LEGE			<del></del>		· · · · · · · · · · · · · · · · · · ·			· ·						

ELC	SITE: Friestown	-
	POLYGON: FORMI-1	
PLANT	DATE: 12 2012-06-08	-
SPECIES LIST	SURVEYORS: D)	

ABUNDANCE CODES: R	= RARE	0 = 0	OCCAS	SIONAL	A =	ABUNDANT D = DOMIN	ANT	(0.	10., _	VI LIV	,
SPECIES	LA'	YER		1	7	SPECIES		LA	/ER		
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	00	U	O		1	(FR VYLG				R	
	7 13		R		1	SALCANDA				0	
RHALATH		R	R		1	LYCAMIER				70	· .
CARNIBLI		0	0		1	CAR BREV				$\sim$	
7 AN AMER		Ď	D	l	1	TIRTOIN				8	
VITRIPA	<b></b>	R	12		1	On note				RO	
SPIALBA	7	3	172		1	TRIKEPE				K	-
VIBORIL	<del></del>	/	12		1	Paccon	-			R	
777010-			+>		1	FRAVIRG		-		0	
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Pomestoum N: FUDIT-L/WOAS 2012-06-08 ELC POLYGON: DATE: **SOILS ONTARIO** SURVEYORS: SLOPE: UTM Position | Aspect Дr % Туре Class Z **EASTING** NORTHING 6 30 362706 4857808 17 3 4 SOIL 2 3 4 5 TEXTURE X < 1cm HORIZON ATICM **TEXTURE** COURSE FRAGMENTS **TEXTURE** COURSE FRAGMENTS С **TEXTURE** COURSE FRAGMENTS EFFECTIVE TEXTURE SURFACE STONINESS SURFACE ROCKINESS **DEPTH TO/OF** MOTTLES NIA GLEY 7120cm BEDROCK WATER TABLE 7/20cm CARBONATES 7120cm ORGANICS 1 cm PORE SIZE DISC #1 PORE SIZE DISC #2 MOISTURE REGIME SOIL SURVEY MAP LEGEND CLASS

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FODM7-2/4085

**POLYGON:** 

COMMUNITY SURVEYORS: 70 TIME: start tart 12.55 end 1.310 DATE: **DESCRIPTION &** 2012.06-08 UTMZ:19, UTME: 362766 **CLASSIFICATION** UTMN: 4897808 POLYGON DESCRIPTION: TOPOGRAPHIC PLANT SYSTEM SUBSTRATE **FEATURE** HISTORY **FORM** COMMUNITY ⊠ Terrestrial □ Organic □Lacustrine Natural 3 □Plakton □Lake □Wetland Mineral Soil □Riverine □Cultural □Submerged □Pond □Aquatic ☐Parent Mat'l □Bottomland □Floating-LVD □River □Acidic Bedrock ☐ Terrace ☐Graminoid □Stream □Forb ☐Basic Bedrock □Valley Slope □Marsh □Carb. Bedrock **⊠**Tableland □Lichen □Swamp ☐Roll Upland □Bryophyte □Fen **□Cliff** Deciduous □Bog □Talus □Coniferous □Barren □Crevice/Cave □Mixed □Meadow □Alvar □Prairie SITE: □ Rockland □Thicket COVER: □Open Water □Beach/Bar □Savannah ☐Shallow Water ☐Sand Dune □Open. □Woodland Surficial Dep □Bluff □Shrub **⊠**Forest □Bedrock **2**Treed □Plantation STAND DESCRIPTION: SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) **LAYER** HT. **CVR** (>> Much greater than; > Greater than; = About equal to) 1 Canopy RAPENSTULMAMER CORRACE > QAHACATH 2 Sub-Canopy 3 Understory PASSATT = (ARBLAN = POTS) MF 4 Grd. Layer HT CODES: 1= >= 25m; 2= 10 - <25m; 3= 2 - <10m; 4= 1 - <2m; 5= 0.5 - <1m; 6= 0.2 - <0.5m; 7= <0.2m CVR CODES: 0 = None; 1 = >0 - 10%; 2 = >10 - 25%; 3 = >25 - 50%; 4 = >50% STAND COMPOSITION: BA: SIZE CLASS ANALYSIS: A < 10 R 10 - 24 **1** 25 - 50 U > 50 STANDING SNAGS: **25 - 50** < 10 N 10 - 24 > 50 **DEADFALL / LOGS:** 10 - 24 25 - 50 < 10 > 50 **ABUNDANCE CODES:** N = NONE R = RARE O = OCCASIONAL A = ABUNDANT **COMMUNITY AGE:** PIONEER YOUNG V MID-AGE OLD GRWTH **SOIL ANALYSIS:** DEPTH TO MOTTLES/GLEY: g = 23cm G = W174 **TEXTURE:** MOISTURE: **DEPTH OF ORGANICS:** \$ HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7120 (cm) **COMMUNITY CLASSIFICATION: ELC CODE** COMMUNITY CLASS: **COMMUNITY SERIES:** ECOSITE: 1748 かのカフ **VEGETATION TYPE:** FORMZ-Z INCLUSION: COMPLEX: Notes:

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PORE SIZE DIS		William Service Servic			·····		14		
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SOIL SURVEY			State of the State		· · · · · · · · · · · · · · · · · · ·			A	
LEGEND CL	ASS	Market State State Commission Commission Commission Commission Commission Commission Commission Commission Com							

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ELC	SITE: Emestoun
ELC	POLYGON: MEMM3
PLANT	DATE: 20/2-06-09
SPECIES LIST	SURVEYORS: DU , ST

	ABUNDANCE CODES:	R=1	RAPE	rı ∠ O=:	90E	SIONAI	΄Ι . - Δ	S = UNDERSTORY 4 = G = ABUNDANT D = DOMIN	IANT	ND (G	RU.) L	ATER	
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d.	ELC WILDLIFE	DAT	YGON: M E: Z012 VEYORS:	EMM	3	END TIME:	45		
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	DITIONS:		D (10th): /U/ <sub>//S</sub>	WIND	:_/	PRECIPITATION:	1191	at roun	
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POT	ENTIAL WILDL	IFE H	ABITAT:						
	VERNAL POOLS			<del></del>		SNAGS			
	HIBERNACULA					FALLEN LOGS			
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SPE	CIES LIST:								
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EVIDI	ENCE CODES (	IAMMA EV):	L H = HERPE	TOFAU	INA L=	: LEPIDOPTERA	F = FI	SH O=OTHE	R
BREE	DING BIRD - PO	SSIBLE	Ξ:						
		SH = S	UITABLE HABITA	AT ·	SM = S	INGING MALE			
BREE	DING BIRD - PRO	DBARI	F.						
			RRITORY		D = DIG	CDL AV		) - DAID	
						SPLAY		P = PAIR	
		A = AN	XIETY BEHAVIO	UR	N = NE	ST BUILDING		/ = VISITING NE	ST
BREE	DING BIRD - COI	VFIRM	ED:						
		DD = D	ISTRACTION		NH = H	SED NEST	FY = I	FLEDGED YOUN	G
		NE = E			NY = Y				
		_	EST ENTRY		. 141 1	CONG	ro = 1	FOOD/FECAL SA	CK
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THE	R WILDLIFE EVII	DENCE							
		OB = O	BSERVED		V0 = V	OCALIZATION		CA = CARCASS	
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		TK = TF				1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		FY = EGGS/YOU!	NG
				_:£ .	rc.≖ Fi	EEDING EVIDENCI		SC = SCAT	
	;	oi = UI	HER SIGNS (spe	icity)			,		
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ELC		SITE:	Emest or	M	POLYGON: M	Emm3
COMMUNI	TY	SURVE	YORS: 05,01	DATE:	TIME: start	14/95
DESCRIPTION	ON &		2,000	012-06-09	end	1510
CLASSIFICA	TION	UTMZ:\8	UTME: 362		UTMN: 489	9846
POLYGON DES	CRIPTIC	ON:		· · · · · · · · · · · · · · · · · · ·		
1 1 1			TOPOGRAPHIC		PLANT	
SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY
☑Terrestrial	□Organ	ic	□Lacustrine	☑Natural	□Plakton	□Lake
□Wetland	ØMiner	al Soil	□Riverine	□Cultural	□Submerged	□Pond
□Aquatic	□Paren	t Mat'l	□Bottomland		□Floating-LVD	□River
	□Acidic	Bedrock	□Terrace	٠.	□Graminoid	□Stream
,	□Basic I	Bedrock	□Valley Slope		\$∦Forb	□Marsh
	□Carb. E	Bedrock	☑Tableland		Lichen	□Swamp
			☐Roll Upland		□Bryophyte	□Fen
			□Cliff		□Deciduous	□Bog
N			□Talus	.*	□Coniferous	□Barren
			□Crevice/Cave		□Mixed	J⊠Meadow
SITE:			□Alvar			□Prairie
OHE.			□Rockland	00//50		□Thicket
□Open Water			□Beach/Bar	COVER:	`	□Savannah
☐Shallow Water			□Sand Dune	ØOpen.		□Wood!and
⊠Surficial Dep			□Bluff	ÜShrub		□Forest
□Bedrock				□Treed		□Plantation
STAND DESCRI	PTION:					
O I A I I I I I I I I I I I I I I I I I	11011.		SPECIES IN OR	DEB OF DECBE	ASING DOMINAN	ICE (up to 4 and
LAYER	нт	CVR			eater than; = Abo	
1 Canopy	3	7	FRAPENS	TULMAM		at equal to)
2 Sub-Canopy	4	3	COROBLI	) = / (/ ) - (		
3 Understory	3	2,3	MUELAC			
4 Grd. Layer	6	3	CARBRE	NZRANA	CRIZRN	MERIC
HT CODES:	1= >= 25m	; 2= 10 - <	<25m; 3= 2 - <10m;		<1m; 6= 0.2 - <0.5	m: 7= <0.2m
CVR CODES:	0 = None			5%; 3 = >25 - 50%		<i>i</i>
STAND COMPO	SITION:					BA:
SIZE CLASS AN	ΔΙ Υςις		/\ < 10	N 10 - 24	M 25 - 50	1/ > 50
STANDING SNA				N 10 - 24	M 25 - 50	N > 50
DEADFALL / LO			M < 10	<b>M</b> 10 - 24	<b>N</b>   25 - 50	// >•50
ABUNDANCE COI		N = NON	E RERARE O	= OCCASIONAL	A = ABUNDANT	_
COMMUNITY AC	)E:		PIONEER	YOUNG	MID-AGE	OLD GRWTH
SOIL ANALYSIS			State State		1111	4 4 4
	CL			OTTLES/GLEY:	g = 44cm	G = 10/A
MOISTURE:			F ORGANICS:	40		(cm)
OMOGENOUS (VAF	RIABLE)  I	DEPTH T	O BEDROCK: >	120		(cm)
COMMUNITY CL	ASSIFIC	CATION			ELC (	ODE
COMMUNITY	CLASS:	Mea	iden.		ME	
COMMUNITY S	ERIES:	MIXE		*	MEM	
EC	OSITE:	Ory-fr		ealow exesit	MEMM	3
VEGETATION		San San San		nest .		
INCL	USION:			* 488.0000 100	· · · · · · · · · · · · · · · · · · ·	

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CARBONATE		**		·.				
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PORE SIZE DISC #		- Maria Carlo			· · · · · · · · · · · · · · · · · · ·		· .	· · · · · · · · · · · · · · · · · · ·
PORE SIZE DISC #								
MOISTURE REGIM								
SOIL SURVEY MAI		A CONTRACTOR OF THE PARTY						
LEGEND CLASS	3			I	······································	1	4	
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ELC	SITE: Brestown
LLO	POLYGON: RBOA - 2
PLANT	DATE: 2012-06-09
SPECIES LIST	SURVEYORS: NJ. JJ

							B = UNDERSTORY 4 = GI		۷D (GI	RD.) L	AYER	,
ABUNDANCE CODES:	R = F			OCCAS	SIONAL	- A =	ABUNDANT D = DOMIN	ANT				
SPECIES			YER	1 4	COL.	1	SPECIES			YER		COL.
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TRACEAN	_	<u> </u>	R	K_		4	TMUYELE			<u> </u>		
14-MONER	R	12	12	1/5			VICERAC				R	
KHARRA		<u> </u>	R	r	<u></u>	1	SOLCAMA				R	
MHUKAN	<u> </u>	<u> </u>		18			A6RAIBA	3			10	
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	ELC WILDLIFE	POL DAT SUR	SITE: EMEATION POLYGON: PROBLE DATE: ZUZ 06-09 SURVEYORS: DJ, JJ										
L		STA	RT TIME: 15	· 30		END TIM	E: /	55	D				
TEMF	6-22:(00)	CLOU	ID (10th): 10/10	WIND	: /	PRECIPITA	TION:	L	but ran	~			
CON	DITIONS:			-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del>		U	9-12-13-13-13-13-13-13-13-13-13-13-13-13-13-				
POT	ENTIAL WILDL	IFE H	ABITAT:										
	VERNAL POOLS				] [···	SNAGS							
	HIBERNACULA					FALLEN LO	GS						
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SPE	CIES LIST:	1150 1111			J L				7				
TY	SP. CODE	TEV	NOTES	#	T TV	CD 00	<u> </u>		NOTEO	1 4			
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EVID	NAL TYPE COD B = BIRD M = N ENCE CODES DING BIRD - PO	IAMMA ( <b>EV)</b> :	L H = HERPE	TOFAU	INA L=	: LEPIDOPT	ERA	F = FI	SH O=OTHE	ER .			
		SH = S	UITABLE HABITA	ΑТ	SM = S	INGING MAL	.E						
BREE	DING BIRD - PR												
			RRITORY		D = DI	SPLAY		P = PAIR					
			XIETY BEHAVIO	UR		ST BUILDING	2		V = VISITING NE	ет			
					14 14	OT DOILDING			v - violiting inc	_31			
BREE	DING BIRD - CO		·										
			ISTRACTION		NU = U	ISED NEST		FY =	FLEDGED YOUN	NG			
		NE = E			NY = Y	OUNG		FS = FOOD/FECAL SACK					
		AE = N	EST ENTRY										
OTHE	R WILDLIFE EVI	DENCE	<b>≣:</b>										
٠		OB = 0	BSERVED		V0 = V	OCALIZATIO	N		CA = CARCASS				
		DP = D	ISTINCTIVE PAR	TS		IOUSE/DEN		-	FY = EGGS/YOU				
		TK = TF				EEDING EVI			SC = SCAT	•			
		SI = OT	HER SIGNS (spe	ecify)									
								*					

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ELC		SITE:	Emeston	in	POLYGON: RBOAL-2							
COMMUNI	TY	SURVE	YORS:	TIME: start	11530							
DESCRIPTION	ON &		2027-20	end	1550							
CLASSIFICA		UTMZ: 8	UTME: 363	UTMN: 4/AVOUY								
POLYGON DES					19.14	<i>y <b>Q Q</b> ·</i>						
		<b>V</b>	TOPOGRAPHIC	1.	PLANT							
SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY						
	⊠Orgar	nic	□Lacustrine	[XNatural	□Plakton	□Lake						
□Wetland	□Miner		□Riverine	□Cultural	□Submerged	□Pond						
□Aquatic	□Paren	t Mat'l	□Bottomland		□Floating-LVD	□River						
	□Acidic	Bedrock	□Terrace		☑Graminoid	□Stream						
	□Basic I	Bedrock	□Valley Slope		□Forb	□Marsh						
1	□Carb. I	Bedrock	[⊠/Tableland		□Lichen	□Swamp						
			□Roll Upland		□Bryophyte	□Fen						
			□Cliff		□Deciduous	□Bog						
		• •	□Talus		□Coniferous	□Barren						
			□Crevice/Cave		□Mixed	⊠Meadow						
SITE:			□Alvar			□Prairie						
SIIE:			□Rockland	00//=0		□Thicket						
□Open Water			□Beach/Bar	COVER:	`	□Savannah						
☐Shallow Water			□Sand Dune	⊠Ópen.	· .`	□Woodland						
□Surficial Dep	• • •		□Bluff	□Shrub		□Forest						
ØBedrock				□Treed		□Plantation						
STAND DESCRI	STAND DESCRIPTION:											
			SPECIES IN OR	DER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)						
LAYER	HT.	CVR			eater than; = Abo							
1 Canopy	1	/	ULMAN	UFR								
2 Sub-Canopy	3	7	JUNUN	RG> FR	APENS							
3 Understory	5	Z, 3	AGRALO	X	A-81							
4 Grd. Layer	6	4	LAR BY									
HT CODES:	1= >= 25m	ı; 2= 10 <b>-</b> <	25m; 3= 2 - <10m;	4= 1 - <2m; 5= 0.5 ·	- <1m; 6= 0.2 - <0.5	m; 7= <0.2m						
			10%; 2 = >10 - 2	5%; 3 = >25 - 50%	%; 4 = >50%	* - * * * * * * * * * * * * * * * * * *						
STAND COMPO	SITION:				/	BA:						
SIZE CLASS AN	ALYSIS		R < 10	R 10-24	N 25 - 50	N > 50						
STANDING SNA	GS:		N < 10	N 10 - 24	N 25 - 50	N > 50						
DEADFALL / LO			<b>1</b> ✓ < 10	10-24	/25 - 50	> 50						
ABUNDANCE COL	-		E R = RARE O									
COMMUNITY AC	}E:	1	PIONEER	YOUNG	MID-AGE	OLD GRWTH						
SOIL ANALYSIS	:											
TEXTURE:	7		DEPTH TO M	OTTLES/GLEY:	a= 11/14	G=N)A						
MOISTURE:	7	DEPTH C	F ORGANICS:	17 /#		(cm)						
HOMOGENOUS/VAF			O BEDROCK:	12		(cm)						
COMMUNITY CL	ASSIFIC	CATION			ELC (	· · · · · · · · · · · · · · · · · · ·						
COMMUNITY		Ro	ck Barren	·	RR							
COMMUNITY S	ERIES:	Open	· · · · · · · · · · · · · · · · · · ·	won	RBO	·						
	OSITE:	Oben A		man ecosite	RROA	-1						
VEGETATION	TYPE:	Dry-an	and Open Ali		100 10	/						
	USION:	pare.	ment Type		KDOA	_ 2						
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Notes:	III LEA.											

SOUS ONTARIO			DATE:	POLYGON: SWDM2-2/WEOZ								
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PLANT	DATE: 2072-04-09	7
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	WILDLIFE	SUR	VEYORS:	$\overline{)2}$	+ Q3				
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COND	DITIONS: $\mathcal{U}$	why	1,001						
POT	ENTIAL WILDL	IFE H	ABITAT:						-,
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SPE	CIES LIST:				,				
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			SUITABLE HABIT	A1	SM = 5	SINGING MALE			
BREE	DING BIRD - PR	OBAB	LE:						
		T = TE	RRITORY		D = Di	SPLAY	* .	P = PAIR	
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BREE	DING BIRD - CO	NFIRM	IED:						
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			THER SIGNS (sp	ecify)	, •			20	١
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ELC		SITE:	ELNES!	TOWN	POLYGON: S	WDM2-2/0
COMMUNI	TY	SURVE	YORS:	DATE:		12:00
DESCRIPTION	ON &		125+55	DATE: 2012-06-09	end	
CLASSIFICA	TION	UTMZ: K	UTME: 362	415	UTMN: 489	
POLYGON DES	CRIPTIC					
			TOPOGRAPHIC		PLANT	
SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY
□Terrestrial	□Orgar		□Lacustrine	EtNatural	□Plakton	□Lake
₩Wetland	⊠Miner		□Riverine	□Cultural	□Submerged	□Pond
□Aquatic	□Paren		<b>⊠</b> Bottomland		□Floating-LVD	□River
	□Acidic		□Terrace		☐Graminoid	□Stream
,	□Basic		□Valley Slope		□Forb	□Marsh
1	□Carb. I		□Tableland		□Lichen	Swamp
	LOGID.	Journal :	□Roll Upland		☐Bryophyte	□Fen
			□Cliff		⊠Deciduous	1
						□Bog
<u> </u>			☐ Talus		☐Coniferous	□Barren
		•	□Crevice/Cave		□Mixed	□Meadow
SITE:			□Alvar			□Prairie
			□Rockland	COVER:	S	□Thicket
□Open Water			□Beach/Bar			□Savannah
☐Shallow Water		:	□Sand Dune	□Open		□Woodland
Surficial Dep	,	•	□Bluff	□Shrub		□Forest
□Bedrock				⊠Treed		□Plantation
STAND DESCR	IPTION:					
			SPECIES IN OF	DER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)
LAYER	HT	CVR		reater than; > Gr		
1 Canopy	Ī	3		STULMA		
2 Sub-Canopy	7-	2,3	RHACAT	U.		
3 Understory	3	7 2	CMCOBIL		· · · · · · · · · · · · · · · · · · ·	
4 Grd. Layer	5,6	7	17 1 4 (747 600 )	47510/AN	14 = DOA-Ph	LU=UYCAME
		n: 2= 10 -	<25m: 3= 2 - <10m:	4= 1 - <2m; 5= 0.5	<1m: 6= 0.2 - <0.5	im: 7= <0.2m
				5%; 3 = >25 - 509		7
STAND COMPO						BA:
CIAND COMIC						DA.
SIZE CLASS AN	IALYSIS	•	<b>()</b>   < 10	10 - 24	// .25 - 50	N > 50
STANDING SNA	GS:		R < 10	R 10 - 24	<b>/</b> / 25 - 50	N > 50
DEADFALL / LC			12 < 10		N 25 - 50	/U > 50
ABUNDANCE CO		N = NON		= OCCASIONAL		
		14 - 1401				
COMMUNITY A			PIONEER	YOUNG	∠   MID-AGE	OLD GRWTH
SOIL ANALYSIS	<b>)</b> :					N. A.
TEXTURE: 5	CL:		DEPTH TO N	MOTTLES/GLEY:	g= 42cm	G= NWA
MOISTURE: /	Lancon	DEPTH (	OF ORGANICS:	37		(cm)
HOMOGENOUS/VA	RIABLE	DEPTH T	TO BEDROCK:	7/20		(cm)
COMMUNITY C	LASSIFI	CATION	<u>.</u>		FLC	CODE
COMMUNITY			wamp		SW	
COMMUNITY				2000		
	COSITE:			vamp Leiduous Swamp	SWD	<del>1</del>
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VEGETATIO		Green	ash mineral d	ecidoous swamp	MARKET	Swood J
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MOTG2:						

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GLEY	No.	·						
BEDROCK		Ocm.						
WATER TABLE		Con						
CARBONATES		2000						
ORGANICS	Ø.	cm						
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PORE SIZE DISC #2		· ·		·				
MOISTURE REGIME	6				l		1	
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ELC	POLYGON: JASI (WEOB)	_
PLANT	DATE: 2012-06-09	
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						1	WASFLEX	A	A	14	R	
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	VERNAL POOLS				0	SNAGS			
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BREE	DING BIRD - PO								
	4.5	SH = S	UITABLE HABIT	AT	SM = 9	SINGING MALE			
BREE	DING BIRD - PR	OBABL	_E:						
	**	T = TE	RRITORY		D = DI	SPLAY	*	P = PAIR	
		A = AN	XIETY BEHAVIO	DUR	N = NE	ST BUILDING		V = VISITING NE	ST
BREE	DING BIRD - CO	NFIRM	ED:						
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SITE: Ernestown **ELC** POLYGON: FODM2-3/WUD6 DATE: **SOILS ONTARIO** SURVEYORS: الله تم SLOPE: UTM Dr Position | Aspect % Class EASTING Type Z **NORTHING** 100 362771 SOIL 2 3 4 5 TEXTURE X 0=22cm HORIZON A> 22cm **TEXTURE** COURSE FRAGMENTS **TEXTURE** COURSE FRAGMENTS **TEXTURE** COURSE FRAGMENTS **EFFECTIVE TEXTURE** SURFACE STONINESS SURFACE ROCKINESS **DEPTH TO/OF** MOTTLES GLEY BEDROCK 7720cm WATER TABLE 7120cm **CARBONATES** ORGANICS PORE SIZE DISC #1 PORE SIZE DISC #2 MOISTURE REGIME SOIL SURVEY MAP LEGEND CLASS

ELC	SITE: EMESTICA		
	POLYGON: (-1)0 M2-3/W	006	
PLANT	DATE: 2012-06-09		
SPECIES LIST	SURVEYORS: WT JT		

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

SPECIES LAYER COL.  CODE 1 2 3 4 COL.  ADLOVAT N N N N N N N N N N N N N N N N N N N	ABUNDANCE CODES:	K=F	CARE	0 = 0	JUCA	SIONAL	.A ≃	ABUNDANI D = DOMIN	IANT				
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:	ELC WILDLIFE	DAT	YGON:	UDM	12/3 06-0	/waws	6		
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<u> </u>	VERNAL POOLS		ADIIAI.			101400	······································		
-	HIBERNACULA					SNAGS FALLEN LOGS	·····		
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	ENCE CODES DING BIRD - PO	SSIBLE							
	• • .		UITABLE HABIT	AT	SM = 8	SINGING MALE			
BREE	DING BIRD - PR	OBABL	-E:		**				-
	21	T = TEI	RRITORY		D = DI	SPLAY	• .	P = PAIR	
		A = AN	XIETY BEHAVIO	UR	N = NE	ST BUILDING		V = VISITING N	EST
BREE	DING BIRD - CO	NFIRM	ED:				•		
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COMMUN	ITY ·	SURVE	YORS: NO NO	DATE:	TIME: start	1350
DESCRIPTION	ON &	ŀ	20	12-06-09	end	
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, OLIGOR BL	JOIN 11	<u> </u>	TOPOGRAPHIC	ſ	PLANT	<del></del>
SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY
☐ Terrestrial	□Orgar		□Lacustrine	⊠Natural	□Plakton	□Lake
□Wetland	□Miner		□Riverine	□Cultural	□Submerged	□Pond
□Aquatic	□Paren		□Bottomland	ountarar	□Floating-LVD	□River
		Bedrock	☐Terrace		☐Graminoid	□Stream
	Basic		□Valley Slope		□Forb	□Marsh
	□Carb. I		☑Tableland		□Lichen	□Swamp
	100.5.	Jour John .	□Roll Upland		☐Bryophyte	□Swamp
	1			, ,	☑Deciduous	1 1
	ŀ	3 5	□Talus	**	□Coniferous	□Bog
			☐ Crevice/Cave	· ·		□Barren
<del> </del>	1		□ Alvar		□Mixed	□Meadow
SITE:		:				□Prairie
ПО			□Rockland	COVER:	,	□Thicket
□Open Water			□Beach/Bar		·	□Savannah
☐Shallow Water		75	□Sand Dune	□Open.		□Woodland
Surficial Dep	·		□Bluff	□Shrub		☑Forest
□Bedrock	<u> </u>			⊠Treed		□Plantation
STAND DESCR	IPTION:				•	
	l ·	٠.				NCE (up to 4 sp)
LAYER	HT	CVR	(>> Much as	eater than; > Gre	eater than: = Abo	out equal to)
	<del></del>			T 41001 W. 100111, 1	outer thair, hot	out oquus to
1 Canopy	/	3	CARCORI	> CAR OV		AMER
1 Canopy 2 Sub-Canopy	1/2	3 4	PU BLAV	D > CAR OV		
1 Canopy 2 Sub-Canopy 3 Understory	/	3 4 2	CARCORI PUGLAV KHICAN	> CAR OV		
1 Canopy 2 Sub-Canopy 3 Understory 4 Grd. Layer	/ <sub>Z</sub>	3 4 2	PUBLAT PUBLAT PHICAN	D > CAR DY 1	AZUKM	AMER
1 Canopy 2 Sub-Canopy 3 Understory 4 Grd. Layer HT CODES:	/ 3 b 1=>= 25n	7 / / n; 2= 10 - <	(ARCSR) PU 61 AV V 1/CATI /MP (AP :25m; 3= 2 - <10m;	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT ZULM <1m; 6= 0.2 - <0.5	AMER
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1 Canopy 2 Sub-Canopy 3 Understory 4 Grd. Layer HT CODES:	7 3 b 1=>= 25m 0 = None	; 1 = >0 -	(ARCSR) PU 61 AV V 1/CATI /MP (AV :25m; 3= 2 - <10m;	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT ZULM <1m; 6= 0.2 - <0.5	<i>A M R P P P P P P P P P P</i>
1 Canopy 2 Sub-Canopy 3 Understory 4 Grd. Layer HT CODES: CVR CODES:	3 1=>= 25n 0 = None	; 1 = >0 -	(ARCSR) PU 61 AV V 1/CATI /MP (AV :25m; 3= 2 - <10m;	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT ZULM <1m; 6= 0.2 - <0.5	AMER
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1 Canopy 2 Sub-Canopy 3 Understory 4 Grd. Layer HT CODES: CVR CODES: STAND COMPO	/ 3 b 1=>=25m 0 = None DSITION: NALYSIS	; 1 = >0 -	(ARCIR) PW 67 AV (25m; 3= 2 - <10m; 10%; 2 = >10 - 2	) > ( ) \ (	A > UCM -<1m; 6= 0.2 - <0.5 %; 4 = >50% R   25 - 50	6m; 7= <0.2m  BA:
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1 Canopy 2 Sub-Canopy 3 Understory 4 Grd. Layer HT CODES: CVR CODES: STAND COMPO SIZE CLASS AN STANDING SNA DEADFALL / LC ABUNDANCE CO COMMUNITY A SOIL ANALYSIS TEXTURE: HOMOGENOUS/VA COMMUNITY C	/ Z 3 1=>= 25m 0 = None DSITION: NALYSIS AGS: DES: DES: GE: RIABLE LASSIFI	:   = >0 -	ARCIRI   A	10 - 24   10 -	A ZULM -<1m; 6= 0.2 - <0.5 %; 4 = >50% 125 - 50 125 - 50 125 - 50 A = ABUNDAN MID-AGE 9 = MIN	Factor   F
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1 Canopy 2 Sub-Canopy 3 Understory 4 Grd. Layer HT CODES: CVR CODES: STAND COMPO  SIZE CLASS AN STANDING SNA DEADFALL / LC ABUNDANCE CO COMMUNITY A  SOIL ANALYSIS TEXTURE: HOMOGENOUS/VA COMMUNITY C COMMUNITY:	J=>= 25m 0 = None 0 = None 0 SITION: NALYSIS AGS: DES: DES: DES: CELASSIFIC CLASS: SERIES: COSITE:	DEPTH CODEPTH TO	ARCOR   PUCATO   PU	10-24 10	A > UCM -<1m; 6= 0.2 - <0.5 %; 4 = >50% R   25 - 50 M   25 - 50 A = ABUNDAN MID-AGE G = WM ELC (	BA:
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ELC	SITE: Emestrun
ELC	POLYGON: MAMM)-3 LWEDZ
PLANT	DATE: 2012-06-10
SPECIES LIST	SURVEYORS: DJJJJ

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PREEDING DIDD DD		Λ,	SIVI - C	JINGING WALE			
BREEDING BIRD - PR							
7 <b>6</b>	T = TERRITORY			SPLAY		P = PAIR	
	A = ANXIETY BEHAVIO	OUR	N = NE	EST BUILDING	·	V = VISITING NE	ST
BREEDING BIRD - CO	NFIRMED:						
	DD = DISTRACTION		NU = U	JSED NEST	FY =	FLEDGED YOU	NG
	NE = EGGS		NY = Y	YOUNG	F\$ =	FOOD/FECAL SA	ACK
	AE = NEST ENTRY				-		* 7
OTHER WILDLIFE EVI	DENCE:				÷		
· · · · · · · · · · · · · · · · · · ·	OB = OBSERVED		VO = VOCALIZATION CA = CARCASS				
	DP = DISTINCTIVE PA	RTS	*				
,	TK = TRACKS		FE = FEEDING EVIDENCI SC = SCAT				
· ·	SI = OTHER SIGNS (sp					Page	_of

	ELC		SITE:	IR	Mestor	24	No. 00.	POLYGON: MAMMI-3/			
1	COMMUNI	TY	SURVE	YOR	S:	DA	re:	TIME:		1030	
	DESCRIPTION	. A NC		Market Street	HUT .		12-06-10		end	1043	
	CLASSIFICA"	TION	UTMZ:18	UTN	E: 362		57.	UTMN:			
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⊠V	Vetland	⊠Miner	al Soil	<b>⊠</b> Ŕi	verine		ulturat	□Subn	nerged	□Pond	
□A	quatic	□Parer	•		ottomland			t	ing-LVD	□River	
		□Acidic	Bedrock	□те	rrace			Gran		□Stream	4
ŀ	,	□Basic	Bedrock	□Va	iley Slope			□Forb	• '	⊠Marsh	
		Bedrock	□Та	bleland			□Liche	en	□Swamp		
	•			DR	oll Upland		100	□Bryo	phyte	□Fen	
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ı	□Bedrock						reed			□Plantatio	on
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40	LAYER	HT	CVR		Much gi	reate	r than; > Gr	eater tha	an; = Abc	out equal to	<u>)</u>
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	ub-Canopy	4	-	1		<b>YY1</b>	M		·····		
	nderstory	->/-	3	<u> </u>	NRUB		. A . = = =	Mna.	757 <b>2</b>	1000	17.0
4 G	rd. Layer	<u> </u>	13,4		17/11-19	10	יאי אי	1456	11-	MC	4x1
(	HT CODES: CVR CODES:	0 = None	n; 2= 10 - · e; 1 = >0 ·	<25m; - 10%	3= 2 - <10m; ; 2 = >10 - 2	4= 1 5%;	- <2m; 5= 0.5 3 = >25 - 509	- <1m; 6= %: 4 = >{	: 0.2 <b>-</b> <0.5 50%	im; 7= <0.2m	1
	ND COMPO	1					<del> </del>			BA:	<del></del>
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	E CLASS AN		): 	<u> </u>	< 10		10 - 24		- 50	/L/ > 50	)
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DEA	ADFALL / LC	GS:		R	< 10	N	10 - 24	$\mathcal{W}$   25	- 50	/U > 50	)
ABU	INDANCE CO	DES:	N = NON	IE R	= RARE .C	= 0	CCASIONAL	A = AE	3UNDAN	Γ	
COI	MMUNITY A	GE:			PIONEER		YOUNG	X	MID-AGE	OLD G	RWTH
	L ANALYSIS	<u>}:</u>						. \(	9cm		1
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_	STURE:				RGANICS:		8000			(cm)	
HOM	OGENOUSINA	RIABLE)	DEPTH .	TO B	DROCK:		25 cm			(cm)	
COI	MMUNITY C	LASSIF	CATION	<b>l</b> :					ELC	CODE	
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□Aquatic	□Paren		⊠Bol	ttomland		□Floatir	iver			
	□Acidic	Bedrock	□Ter	race		⊠Grami	noid	□s	tream	
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			□Tal		,	☐Conife		□в	arren	
				vice/Cave		□Mixed			eadow	
SITE:			□Alv				•	□Pi	rairie	
· ·				ckland				nicket		
□Open Water	•			ach/Bar	COVER:		i	□S	avannah	
☐Shallow Water				nd Dune	ØfOpen.			□W	oodland	
⊠Surficial Dep		□Blu	ff	□Shrub			□F	orest		
□Bedrock	□Bedrock □Treed							□PI	antation	
STAND DESCRI	PTION:									
·			SPEC	CIES IN OR	DER OF DECRE	ASING D	OMINA	ICE (	up to 4 sp)	
LAYER	HT	CVR	(>	>> Much gi	reater than; > Gr	eater thai	n; = Abo	out e	qual to)	l
1 Canopy	_/	1	FV.	CAPIE	NS > ZAN		12			i
2 Sub-Canopy	2	3,4		MARU		LATI				
3 Understory		3			CU = ON					
4 Grd. Layer	5	3			DI = CARST					
					4= 1 - <2m; 5= 0.5			im; 7=	<0.2m	
			10%;	2 = >10 - 2	5%; 3 = >25 - 509	%; 4 = >50	0%			
STAND COMPO	SITION	; 						BA:		[
SIZE CLASS AN	ALYSIS	:	R	< 10	<b>№</b> 10 - 24	<b>№</b> 25 -	- 50	N	> 50	
STANDING SNA	GS:		R	< 10	N 10 - 24	N 25 -	- 50	11	> 50	
DEADFALL / LO	GS:		R	< 10	N 10 - 24	1 25 -		N	> 50	
ABUNDANCE CO	DES:	N = NON	E R=	RARE O	= OCCASIONAL	A = ABI	UNDAN	Γ		
COMMUNITY A	GE:			PIONEER	YOUNG	× N	IID-AGE		OLD GRWTH	
SOIL ANALYSIS	): /		, Di		OTTLES/GLEY:	a = 78	C 110	C -	N/IA	
MOISTURE:	7	DEDTH (				y - 20	-			·
MOISTURE: DEPTH OF ORGANICS: 26 (cm)  HOMOGENOUS/VARIABLE DEPTH TO BEDROCK: 7/20 (cm)										
COMMUNITY CI	LASSIFI	CATION	:				ELC (	•		
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COMMUNITY S	SERIES:	Sha	1100	Juaan	ch.	7	MA			
EC	COSITE:	Latte	il n	ineval +	shallow	n	1451	M1-	7	
VEGETATION	N TYPE:	Catte	ul n	voe	shallow	M	ASP	11-	1	
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SPECIES LIST	SURVEYORS: DT. JT

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	WILDLIFE		VEYORS: RT TIME:	1300	<u> </u>	END TIME:	1330	)					
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EVID	NAL TYPE COD  B = BIRD M = N  ENCE CODES  EDING BIRD - PO	/AMM/ (EV):	NL H = HERPE	TOFAU	INA L:	= LEPIDOPTERA	. F=F	ISH O=OTHE	≣R				
		SH = S	UITABLE HABIT	AT	SM = 5	SINGING MALE							
BREE	DING BIRD - PR	OBAB	LE:										
			RRITORY		D = DI	SPLAY		P = PAIR					
			IXIETY BEHAVIO	UR		EST BUILDING		V = VISITING NE	€ST				
DDEE	DINC BIRD CO												
DKEE	DING BIRD - CO				AII ) — I	LOED MEST	EV.	FLEDGED YOU	,				
			EST ENTRY		IN T = 1	YOUNG	r5 =	FOOD/FECAL S.	AUK				
OTUE	R WILDLIFE EVI												
OINE	IN WILDLIFE EVI				VO ~ 1	ACCALIZATION		04 - 0450400					
OB = OBSERVED  DP = DISTINCTIVE PARTS					VO = VOCALIZATION CA = CARCASS								
TK = TRACKS		HO = HOUSE/DEN FY = EGGS/YOU FE = FEEDING EVIDENCI SC = SCAT			DNG								
			re-F	CEDING EVIDENC		JO - JOAT							
	SI = OTHER SIGNS (specify)							Page	of /				

Changed to WEDS

	ELC SITE: Constant														
		l			POLYGON: MASMI WEBY										
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	P/A	PP	Dr	Position	Aspect	% SLOP		Class	7	UTM Z   EASTING   NORT					
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T			ROCK		120cm		· · · · · · · · · · · · · · · · · · ·								
	WA	-	<b>TABLE</b>		5cm		·		4						
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L.'V															
	SOIL SU	JRVE	Y MAP						•						

## . Changed to WEOS

ELC	SITE: EMOSTRON
ELC	POLYGON: MASMI-1 - WE 84
PLANT	DATE: 2012-00-10
SPECIES LIST	SURVEYORS: ") T. T
LAYERS	: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT SPECIES LAYER 2 3 **SPECIES** LAYER COL. COL. ÇODE CODE 3

Page \_

changed to WEBS

FIG	SITE: Proc	ston	AA		·		·					
ELC	POLYGON: VVI	ACMI	-1_	WEBY.								
,	DATE: 7012	202	-10		······································	·						
WILDLIFE	SURVEYORS: 0	$\mathcal{J}_{i,j}$	J T			<del></del>						
	START TIME: 17	01		END TIME: /	730	· · · · · · · · · · · · · · · · · · ·						
TEMP (°C): 29-32	CLOUD (10th): 1/0	WIND: /	PRECIPITATION: NIL									
	myriam				<u>, , , , , , , , , , , , , , , , , , , </u>							
POTENTIAL WILDL												
VERNAL POOLS SNAGS												
HIBERNACULA			D	FALLEN LOGS								
SPECIES LIST:							<del></del>					
TY SP. CODE	EV NOTES	#	TY	SP. CODE	EV I	NOTES	#					
B 505P	VO Smisnuco?						<del>                                     </del>					
BCEWA	OB	•										
1 Esthoa	VO SMAMA 87											
3 KWBLI	VO 11/9	•										
B COYE	VO " "	9										
15 LIMW	03											
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		OI-MOIN	~ L-	CEPIDOFIERA	F → F10	5H U=01H	ER					
EVIDENCE CODES							•					
BREEDING BIRD - PO												
• •	SH = SUITABLE HABITAT	Т :	SM = S	INGING MALE								
BREEDING BIRD - PR	OBABLE:											
	T = TERRITORY	[	D = DIS	SPLAY	F	P = PAIR	.*					
	A = ANXIETY BEHAVIOU	IR I	N = NE	ST BUILDING	\	/ = VISITING NE	EST					
BREEDING BIRD - CO	NFIRMED:											
	DD = DISTRACTION	ı	NU = U	SED NEST	FY = F	LEDGED YOU	NG					
	NE = EGGS	ı	NY = Y	OUNG		OOD/FECAL S						
AE = NEST ENTRY												
OTHER WILDLIFE EV	IDENCE:					•	•					
	OB = OBSERVED	,	V0 = V	OCALIZATION	•	CA = CADCASS						
•	DP = DISTINCTIVE PART		VO = VOCALIZATION CA = CARCASS HO = HOUSE/DEN FY = EGGS/YOU									
	TK = TRACKS		FE = FEEDING EVIDENCI SC = SCAT									
	SI = OTHER SIGNS (spec				,		• *					
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within 3-5

ELC		SITE:	Erneston	M	POLYGON: MASMICH						
COMMUNI	TY ·	SURVE	YORS:	DATE:	TIME: start	1501					
DESCRIPTIO	N &	; * .	30 20	112-06-10	end	1517					
CLASSIFICA	TION	UTMZ: 8		3083	UTMN: 489	8553					
POLYGON DES	CRIPTIC	ON:	,	•							
			TOPOGRAPHIC		PLANT						
SYSTEM		TRATE	FEATURE	HISTORY	FORM	COMMUNITY					
□Terrestrial	□Organ		□Lacustrine	<b>⊠</b> Natural	□Plakton	□Lake					
⊠Wetland	Miner		□Riverine	□Cultural □	□Submerged	□Pond					
□Aquatic	□Paren		<b>⊠</b> Bottomland		□Floating-LVD	□River					
1		Bedrock	□Terrace		<b>⊠</b> Graminoid	□Stream					
	☐Basic I		□Valley Slope		□Forb	<b>E</b> Marsh					
	□Carb. I	Bedrock	□Tableland		Lichen	□Swamp					
14			□Roll Upland		□Bryophyte	□Fen					
			□Cliff		□Deciduous	□Bog					
			□Talus	4	□Coniferous	□Barren					
			□Crevice/Cave		□Mixed	□Meadow					
SITE:			□Alvar			□Prairie					
			□Rockland	COVER:	`	□Thicket					
□Open Water			□Beach/Bar			□Savannah					
☐Shallow Water			□Sand Dune	ØOpen.		□Woodland					
Surficial Dep		,	□Bluff	□Shrub		□Forest					
′□Bedrock	• .			□Treed	. !	□Plantation					
STAND DESCR	IPTION:		<u> </u>	• •	·	٠,					
			SPECIES IN OR	DER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)					
LAYER	HT:	CVR	(>> Much g	reater than; > Gr	eater than; = Abo	out equal to)					
1 Canopy		1.2	FRANIE	IN ZJUN	VW6= P1	NSTRO					
2 Sub-Canopy	Z	3	MACA	M=SALP	上ゴ						
3 Understory	4	34	TYPANG	<u>/                                    </u>							
4 Grd. Layer	5	3	CARCH	1741	161=ASTA	UNI					
HT CODES:	1= >= 25n	n; 2= 10 -	<25m; 3= 2 - <10m;	4= 1 - <2m; 5= 0.5	- <1m; 6= 0.2 - <0.5	im; 7= <0.2m					
			· 10%; 2 = >10 - 2	5%; 3 = >25 - 509	%; 4 = >50%	j .					
STAND COMPO	SITION		•			BA:					
SIZE CLASS AN	IALYSIS	:	R < 10	R 10-24	N 25 - 50	N > 50					
STANDING SNA			12 < 10	X 10 - 24	N 25 - 50	<u> </u>					
DEADFALL / LO			12 < 10	10 - 24		> 50 > 50					
ABUNDANCE CO		N - NON		= OCCASIONAL		7 1 1					
		N - NON		<del>,</del>		,					
COMMUNITY A	GE:		PIONEER	YOUNG	MID-AGE	OLD GRWTH					
SOIL ANALYSIS	<b>}:</b>			4.00							
TEXTURE: 5	),' -		DEPTH TO N	MOTTLES/GLEY:	g = N/A	G=10/1					
MOISTURE:	6		OF ORGANICS:	3		(cm)					
HOMOGENOUS VA	RIABLE	DEPTH 1	TO BEDROCK:	7120		(cm)					
COMMUNITY C	COMMUNITY CLASSIFICATION: ELC CODE										
COMMUNITY	CLASS:	M	avsh		1U/A						
COMMUNITY	SERIES:	SING	1/200 ma	115h	MAS						
E	COSITE:	Cultu		allow march 2005	to MASI						
VEGETATIO	N TYPE:	Catta			MASM	-					
INCL	USION:		7 1								
CO	MPLEX:										
Notes:											

SITE: Erveistown **ELC POLYGON:** FOCMER DATE: **SOILS ONTARIO** SURVEYORS: SLOPE: UTM Position | Aspect Dr % Type Class EASTING NORTHING Z 名多之 230 80 362611 4698383 3 SOIL 2 3 4 5 TEXTURE X 0=1cm HORIZON A>120cm **TEXTURE** COURSE FRAGMENTS TEXTURE COURSE FRAGMENTS С **TEXTURE** COURSE FRAGMENTS **EFFECTIVE TEXTURE** NA SURFACE STONINESS SURFACE ROCKINESS **DEPTH TO/OF** NA MOTTLES **GLEY** NA BEDROCK >120cm WATER TABLE >120cm CARBONATES >120cm **ORGANICS** 1cm PORE SIZE DISC #1 PORE SIZE DISC #2 MOISTURE REGIME SOIL SURVEY MAP LEGEND CLASS

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ELC	SITE: EMES	Den		
LLC	POLYGON: FUC	MY=2 / WOSS		
PLANT	DATE: ZOV	-06-11	C + 3 - 5	
SPECIES LIST	SURVEYORS: (2)	`(O)	r -	

ABUNDANCE CODES:	R = F	RARE	0 = 0	CCAS	SIONAL	A =	ABUNDANT D = DOMIN	ANT		•		,
SPECIES		LA`	YER		COL.	1	SPECIES		LA	/ER		COL.
CODE	1	2	3	4	COL		CODE	1	2	3	4	COL.
PINSORO	A	A	B	A		1	CIRLUTE				1/2	
AT LOUNG	R	n	V	10		1	GENCAMA					
OUNIVUL	10	R	M	R		1	GERNINA				R	
ZAMMEN	1/2		1/1	K		1	ZIZAURE				R	
PRUPENS		1	1	R		1	LITOFFI				12	
RUNKAM			1	1/4		1	FRAVIRA				11	
VIVICIPA			1	1/2		1	SIPLEN				R	
RHATAH		1	1	12		1	1 AT AFOR				7	
VIRRATIO		1	17	R		1	97121717				72	
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	ELC WILDLIFE	DAT	YGON:	00	MI	TO COO	1557	)	
TEM	°(°C): 26.2			WIND:					
			warn		$-\nu$	PRECIPITATION:	MIC		
	ENTIAL WILDL	77.7				<del></del>	<del></del>		
	VERNAL POOLS	II E II	MDITAT:			1011100		* * * * * * * * * * * * * * * * * * * *	
	HIBERNACULA					SNAGS FALLEN LOGS			
						I ALLEN LOGS			
SDE	CIES LIST:			·····	J L				لـــــــــــــــــــــــــــــــــــــ
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		1AMMA		TOFAU	INA L=	= LEPIDOPTERA	F = FI	SH O = OTH	ER
	ENCE CODES ( DING BIRD - PO		<b>E:</b>			,			
		SH = S	UITABLE HABITA	AT .	SM = 5	SINGING MALE		•	
BREE	DING BIRD - PR	OBABL	_E:						
	1.	T = TE	RRITORY		D = D!	SPLAY	* 1	P = PAIR	
		A = AN	XIETY BEHAVIO	UR	N = NE	ST BUILDING		V = VISITING N	EST
BRFF	DING BIRD - CO	NEIDM	ED.						
			ISTRACTION	9	MLI I	JSED NEST	EV - 1	ELEDOED VÁL	NO
		NE = E				OUNG		FLEDGED YOU! FOOD/FECAL S	
,	•		EST ENTRY		· 14 f 1	CUNG	ro ≈ 1	FOOD/FECAL S	AUK
ATI									
OIHE	R WILDLIFE EVI								
			BSERVED			OCALIZATION	"	CA = CARCASS	
			ISTINCTIVE PAR	RTS		IOUSE/DEN		FY = EGGS/YOU	JNG
	•		RACKS	ate a	FE.≈ F	EEDING EVIDENC	] (* <del>*</del>	SC = SCAT	
	•	<b>ગ</b> ι = Ο Ι	THER SIGNS (spe	эспу)				<u> </u>	/
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W085

	ELC		SITE:	Emestou	n.	POLYGON:	FOC M1-2		
	COMMUNIT	Υ	SURVE	YORS: NI	DATE:	TIME: start	1540	<b>.</b>	
	DESCRIPTION			$\sim$ $\sim$ $\sim$	W12-06-10	end	1550		
. •	CLASSIFICAT	ION	UTMZ: P		2611		98383		į
	POLYGON DESC	PIDTIC	Ni.			to the second se		<b>.</b>	-
	TOLIGON DESC	JICIT I IC	/14.	TOPOGRAPHIC		PLANT			
	SYSTEM	SUBST	RATE	FEATURE	HISTORY	FORM	COMMUNITY	•	
		□Organ		□ Lacustrine	Di Natural	□Plakton	□Lake		
	/	Digan Di Minera		□Riverine	- Cultural	□Submerged	□Pond		÷
	li .	☐Parent		☐Bottomland	LiCultural	☐Floating-LVD	□River		
Ì		□Acidic I		DTerrace		☐Graminoid	□Stream		
		☐Basic E		□Valley Slope		□Forb	□Marsh		i
	1	☐Carb. B		☑ Tableland		□Lichen	□Swamp		
	1	Livaiv. L	eulock	☐Rolf Upland	:	☐Bryophyte	□Swamp		
				□Cliff		Deciduous	□Bog		
				□Talus		☐Coniferous	□Bog □Barren		
				☐Crevice/Cave		☐Mixed	□Meadow		i
				□Alvar		LIVIXEG			
	SITE:			□Rockland			□Prairie		
	□Open Water			☐Beach/Bar	COVER:		☐Thicket		
-	☐Shallow Water		ľ	☐Sand Dune	F70-0-		□Savannah		
ı	Surficial Dep	·	V I		□Open		□Woodland		!
1	□Bedrock			□Bluff	□Shrub		⊠Forest		
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г	STAND DESCRIP	TION:	······································						
					DER OF DECRE	,			
1	LAYER	HT	CVR	W 4	eater than; > Gre				i
	1 Canopy	$\perp$	4	+7NSTR	02 PICE	CHUST	UNUIRG		
	2 Sub-Canopy	<u>Z</u>	3		ENS				
	3 Understory		3		ner > PK				
Ŀ	4 Grd. Layer	5 1	2	RIBCY	MN = CH	RPENST	LIRLUIE		
				25m; 3= 2 - <10m;			m; 7= <0.2m	* Note:	
_			1 = >0 -	10%; 2 = >10 - 2	5%; 3 = >25 - 50%	%; 4 = >50%	· • • • • • • • • • • • • • • • • • • •		
-	STAND COMPOS	SITION:	•				BA:	* Note: No snage contain	
L								Contain	
E	SIZE CLASS ANA	LYSIS:		() < 10	K 10 - 24	R 25 - 50	N > 50	contain therefore	
1	STANDING SNAG	SS:		人 < 10	10-24 X	<b>7</b> 25 - 50	V > 50	GNITIES!	
	DEADFALL / LOG	S:		R < 10	N 10-24	R 25 - 50	/レ > 50	n foro	
7	ABUNDANCE COD	ES: 1	NON = V	E R = RARE O	= OCCASIONAL		T	1 revenue	
Г	COMMUNITY AG	<u> </u>		PIONEER	Young	V 1 100 100		identified snagpare	
		<u> </u>	<u>I</u>	PIONEERI	YOUNG	X   MID-AGE	OLD GRWTH	(nen)	
-	SOIL ANALYSIS:						m	SNOWD WYS	
_	TEXTURE:	-		DEPTH TO M	OTTLES/GLEY:	g = N/H	G=1014		
	MOISTURE: 3		DEPTH C	F ORGANICS:	1 . /		(cm)	not But	
1	IOMOGENOUS/VARI	ABLE [	DEPTH T	O BEDROCK:	7120		(cm)		
(	COMMUNITY CLA	ASSIFIC	ATION		•	FIC	CODE	maternity	
Ē	COMMUNITY C			rest	· · · · · · · · · · · · · · · · · · ·	Ev	JODE	1 Marchines -1	_
H	COMMUNITY SE		1 1	Herew	forest.	(2.7		1 1002 11407 517	<b>()</b>
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	E	LC	5.4	POLYGON: 1994 FORM9-4/WUBS									
so	OILS (	ATAC	NRIO	DATE:	201	2-06	2-10	. ,					
L			1	SURVEY	ORS:	<u>_ レンフー +</u>	-27	n .	UTM				
P/A	PP	Dr	Position	Aspect	%   %	Type	Class	Z	EASTING	NORTHING			
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		SOIL		1		2	3		4	5			
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LLO	POLYGON: FOOM9-4/WOBS	
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SPECIES LIST	SURVEYORS: 100 00	

ABUNDANCE CODES: R = RARE	LAYERS:	1=0	ANOF	γ 2: - 0 = 0	= 20B	-CANOP	Y 3	S = UNDERSTORY 4 = 0	SROU	ND (GI	RD.) L	AYER	,
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Page 1 of 1	<u></u>			1					L				

	ELC WILDLIFE	DAT	YGON	2012 RS:	OMO ON	14/19 9-49 2-10	/C//		172	6	
TEMP	(°C): 77.1	CLOU	D (10th)	: 2/1)	WIND:	1	PRECIPITA	ATION:	101	7	
CONE	OTTIONS:					<del>(</del>					
POT	ENTIAL WILDL	IFE H	ABITA	T:							<del>~~</del>
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SPE	CIES LIST:										
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EVID	NAL TYPE COE B = BIRD M = 1 ENCE CODES DING BIRD - PO	ИАММ/ ( <b>EV):</b>	AL H=	HERPE	TOFAL	INA L	= LEPIDOP	TERA	F=FI	SH O=OTH	ER
		SH = S	UITABL	E HABITA	ΛT	SM = 5	SINGING MA	\LF		. *	• .
BRFF	DING BIRD - PR	ORARI	E.				, , , , , , , , , , , , , , , , , , , ,				
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				BEHAVIO	10		STEVI ST BUILDIN	NG.		r - PAIR V = VISITING NE	=ет
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BREE	DING BIRD - CC			_				٠.			
			DISTRA	CTION		NU = U	JSED NEST		FY = I	FLEDGED YOU	NG
		NE = E				NY = Y	OUNG		FS = 1	FOOD/FECAL S	ACK
		AE = N	IEST EN	NTRY							
OTHE	R WILDLIFE EV	DENC	E:								
		OB = 0	BSER\	/ED		V0 = \	OCALIZATI	ON	. (	CA = CARCASS	
	•	DP = D	ISTINC	TIVE PAR	TS	HO = H	HOUSE/DEN	t	**	FY = EGGS/YOU	
		TK = T	RACKS			FE = F	EEDING EV	IDENCI	, 4,	SC = SCAT	
		SI = 0	THER S	IGNS (spe	cify)	7				4	
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ELC		SITE:	Ernestin	un	POLYGON: TODM9/4						
COMMUNI	TY ·	SURVE	YORS: DJJ	DATE:	TIME: start	1200					
DESCRIPTION	N &			12-06-10	end						
CLASSIFICA	TION	UTMZ: Q	UTME: 36 257	14	UTMN: 4898	7779					
POLYGON DES	CRIPTI	ON:		*							
			TOPOGRAPHIC	, ·	PLANT						
SYSTEM		TRATE	FEATURE	HISTORY	FORM	COMMUNITY					
<b>⊠</b> Terrestrial	□Orgar		□Lacustrine	Ş Naturai	□Plakton	□Lake					
□Wetland	Miner		□Riverine	☐Cultural	□Submerged	□Pond					
□Aquatic	□Paren		□Bottomland		□Floating-LVD	□River					
		Bedrock	□Terrace	1.14	□Graminoid	□Stream					
, ,	□Basic		□Valley Slope		√□Forb	□Marsh					
	□Carb. I	Bedrock	□ Tableland	i	□Lichen	□Swamp					
***			□Roll Upland		□Bryophyte	□Fen					
*			□Cliff		☑Deciduous ☐Bog						
			□Talus		□Coniferous	□Barren					
			□Crevice/Cave		□Mixed	□Meadow					
SITE:			□Alvar			□Prairie					
<b>5</b> 0 - 50 - 6			□Rockland	COVER:	`	□Thicket					
□Open Water			□Beach/Bar		·	□Savannah					
☐Shallow Water			□Sand Dune	□Open □Shrub		□Woodland					
Surficial Dep	•		□Bluff .		DForest						
□Bedrock	• .		□Plantation								
STAND DESCRI	PTION:										
			SPECIES IN OR	DER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)					
LAYER	HT	CVR		eater than; > Gre							
1 Canopy	1	3 ا	CAR OVAT	ACESACO	SFRADE	ENS					
2 Sub-Canopy	2	1,2	PINSTR	U= IILMA	AMER						
3 Understory	3	23	CARCAR			^					
4 Grd. Layer	3	3	DNPPAL	L>5AN	MAN = 1	HLDIVA					
HT CODES:	1= >= 25m	n; 2= 10 - <	<25m; 3= 2 - <10m;	4= 1 - <2m; 5= 0.5 ·	- <1m; 6= 0.2 - <0.5	m; 7= <0.2m					
CVR CODES:	0 = None	; 1 = >0 -	10%; 2 = >10 - 2	5%; 3 = >25 - 50%	%; 4 = >50%	, , , , , , , , , , , , , , , , , , ,					
STAND COMPO						BA:					
SIZE CLASS AN	AL VOIC		01:40	A 140 04: 1	*4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
			○ < 10	<u> </u>	JR 25 - 50	N > 50					
STANDING SNA			R < 10	R 10-24	<b>M</b> 25 - 50	N > 50					
DEADFALL/LO			0 < 10	N 10-24	人 25 - 50	N > 50					
ABUNDANCE COI	DES:	N = NON	E R = RARE O	= OCCASIONAL	A = ABUNDANT						
COMMUNITY AC	3E:		PIONEER	YOUNG	MID-AGE	OLD GRWTH					
SOIL ANALYSIS	:	: .									
TEXTURE:			DEPTH TO M	OTTLES/GLEY:	g = 23cm	G= N11/					
MOISTURE:	2	DEPTH C	F ORGANICS:	15		(cm)					
IOMOGENOUS/VAF	RIABLE	DEPTH T	O BEDROCK:	700		(cm)					
COMMUNITY CL				. :	ELC (	CODE					
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COMMUNITY					14)						
COMMUNITY	CLASS:		rest	08	黑丽						
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		GLEY	22		:									
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SPECIES LIST					<i>V</i>		R 7	yms	124				
LAYERS:	1 = C/	ANOP	Y 2=	: SUB	CANOP	Y 3	= UNDERSTO	RY 4=G	ROUN	ID (GF	RD.) L/	YER	
ABUNDANCE CODES:	R=R	ARE	0 = 0	CCAS	SIONAL	A =	ABUNDANT (	O = DOMIN	TMAN				
SPECIES		LAY			<u> </u>	1	SPECI			LA	/ER		001
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SITE: ERNESTOWN **ELC** WEO 475WDMZ-POLYGON: DATE: JU12 WILDLIFE SURVEYORS: 114 START TIME: END TIME: TEMP (°C): 27 PRECIPITATION: O CLOUD (10th): WIND: WZ CONDITIONS: POTENTIAL WILDLIFE HABITAT: VERNAL POOLS dry SNAGS HIBERNACULA **FALLEN LOGS** SPECIES LIST: SP. CODE EV NOTES # SP. CODE ΕV **NOTES** REVI SM 1 B SH woon 2 SOSP M **FAUNAL TYPE CODES (TY):** B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER **EVIDENCE CODES (EV): BREEDING BIRD - POSSIBLE:** SH = SUITABLE HABITAT SM = SINGING MALE **BREEDING BIRD - PROBABLE:** T = TERRITORY D = DISPLAY P = PAIR A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST **BREEDING BIRD - CONFIRMED:** DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK AE = NEST ENTRY OTHER WILDLIFE EVIDENCE: OB = OBSERVED VO = VOCALIZATION CA = CARCASS DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG TK = TRACKS FE = FEEDING EVIDENCI SC = SCAT SI = OTHER SIGNS (specify)

	ELC		SITE:	ERWESTU	WN	POLYGON: SWOMZ-1/WEOY					
	COMMUNI	TY	SURVE	YORS:	DATE:	TIME: start	1500	1			
	DESCRIPTIO	N &	LK1	ymsira		end	153.				
	CLASSIFICAT	TION	UTMZ!S	UTME: ろるて	178	UTMN: 489	9385				
PO	LYGON DES	CRIPTIC	ON:						E04 .		
	OVOTEN	01150		TOPOGRAPHIC	i	PLANT					
	SYSTEM		TRATE	FEATURE	HISTORY	FORM	COMMUNITY				
	Terrestrial Wetland	□Organ ☑Miner		□Lacustrine ☑Riverine	☑Natural □Cultural	□Plakton	□Lake				
	Aquatic	□Paren		☐Bottomland	Licultural	☐Submerged	□Pond ☑River	•	•		
	-quatic	□ □ Acidic		☐Terrace		☐Floating-LVD ☑Graminoid	□Stream	·			
	2/	□ Basic I		□Valley Slope		□Forb	□Marsh				
	. (Y	Carb. I		☐ Tableland		□Lichen	□Swamp				
	` 1	La Carb. I	<b>Jour</b> Jock	□Roll Upland		□Bryophyte	□Fen				
				□Cliff		☑Deciduous	□Bog				
1	1			□Talus		☐Coniferous	□Bog □Barren	İ			
1				□Crevice/Cave		□Mixed	☑Meadow				
				□Alvar		Livinou	□Prairie				
	SITE:			□Rockland							
	pen Water			□Beach/Bar	COVER:	*	□Thicket □Savannah				
	hallow Water			□Sand Dune	□Open.		☑Woodland				
1	Surficial Dep	1		□Bluff	□Shrub		□Forest	·			
	edrock				⊡Treed		□Plantation				
STA	AND DESCRI	PTION:	· ·				,		. *		
				SPECIES IN OR	DER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)	]			
	LAYER	HT	CVR	(>> Much gi	reater than; > Gr	eater than; = Abo	out equal to)				
	anopy	2	4	FRAX NIG			TOCC > U	CMUI	14 PAE		
	ub-Canopy	3	3	FRAX NIC					ari.		
	nderstory	. \	2_	PHAL AR			IOC SEN =	EUPA	DUC		
4 G		5,b	4		EN > SAM		vater Olar	Mary	\$6 > ch		
	HT CODES:	1= >= 25m	1; 2= 10 - <	<25m, 3= 2 - <10m;	4= 1 - <2m; 5= 0.5	- <1m; 6= 0.2 - <0.5	im; 7= <0.2m 🕠	ild Pa	is sell of		
				10%; 2 = >10 - 2	5%; 3 = >25 - 50°	%; 4 = >50%	,				
	ND COMPO			<u> </u>			BA:				
	E CLASS AN		:	A < 10	<u> 10 - 24</u>	R 25 - 50	∱√   > 50				
	NDING SNA			R < 10	R 10-24	√ 25 - 50	N > 50				
	ADFALL / LO		1	<u> </u>	P 10 - 24	25 - 50	N > 50	ļ			
	INDANCE COL		N = NON	E R=RARE O	= OCCASIONAL	A = ABUNDAN	Γ				
COI	MMUNITY AC	SE:		PIONEER	YOUNG	MID-AGE	OLD GRWTH	]			
	L ANALYSIS	•				· 10 11 1			•		
	TURE: Si	CL	·-····		IOTTLES/GLEY:	g= 44	G = ZZ	_			
,	STURE: MOU			OF ORGANICS:			(cm)	}			
ном	OGENOUS/VAR	RIABLE	DEPTH T	O BEDROCK:	35		(cm)				
-	MMUNITY CL		CATION			ELC (	CODE				
	COMMUNITY (			SWO		5W					
<u> </u>	OMMUNITY S			. Ocel	curry.	SWD					
ļ	EC EC	OSITE:	15/1	more se	ged many	40 3WD	MS		*		
	VEGETATION		B JAN	vary tyo	coem /	3401	M2-1		*		
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Notes		MPLEX:							No. 1		

ELC SOILS ONTARIO		SITE:	$\mathcal{U}$	003	ERNES	N					
		POLYGO	N:	WOO 3/FODM6-4							
		DATE:		10 JU	LY 201	2 /					
SURVEYORS: ROB TYMSTRA											
SLOPE: UTM											
P/A PP Dr	Position	Aspect	%	Туре	Class	Z	EASTING	NORTHING			
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		T = TER	RRITORY		D = D	ISPLAY	<i>f</i> .	P = PAIR	. *
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PLANT	DATE: 10 JULY 12
SPECIES LIST	SURVEYORS: R. TYMSTREA
LANCEDO	

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

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COMMUNI	ITY	SURVE	YORS:	DATE: 2012-07-10	TIME: start	1150				
DESCRIPTION	S NC		4161	2012-07-10	end		1.			
CLASSIFICA	TION	uтмz:1\$	UTME: 156	2190	UTMN: 480	19201	]			
POLYGON DES	SCRIPTIO	ON:					- 			
			TOPOGRAPHI	С	PLANT		1			
SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY				
☐ Terrestrial	□Organ		□Lacustrine	⊡Katural	□Plakton	□Lake	maple with occ. who pin			
□Wetland	⊠Minera		□Riverine	□Cultural	□Submerged	□Pond	mando with			
□Aquatic	□Paren		□Bottomland		□Floating-LVD	□River	Wh. on			
	□Acidic I □Basic E		□Terrace □Valley Slope		□Graminoid □Forb	□Stream □Marsh	oec.			
	☐Carb. E		☐ Valley Slope ☐ Tableland		Lichen	☐Swamp				
,		Jourook	□Roll Upland		□Bryophyte	□Fen				
			□Cliff		Deciduous	□Bog				
			□Talus		□Coniferous	□Barren				
			□Crevice/Cave		a Wixed	□Meadow				
SITE:			□Aivar			□Prairie				
			□Rockland	COVER:		□Thicket				
□Open Water			□Beach/Bar			□Savannah				
☐Shallow Water ☑Surficial Dep	,		☐Sand Dune	□Open.		⊠Woodland				
□Bedrock			□Bluff	□Shrub ☑Treed		☑Forest □Plantation				
	IDTION			Learneed		Driantation	.			
STAND DESCRI	PHON:	1	SDECIES IN O	RDER OF DECRE	ARING DOMINA	ICE (vm to 4 cm)	1			
LAYER	нт	CVR		greater than; > Gr						
1 Canopy	2	C/	ACER SAC			ME>PINU	STR			
2 Sub-Canopy	3	4	ACER SA			PRAX NIGS	OSTRVIR			
3 Understory	4	1	FRAXNI	10-7 Roses	p. 511	CIAAME	1			
4 Grd. Layer	5.6	/	VIOLA SP			NIG > Po	porel			
				n; 4= 1 - <2m; 5= 0.5		im; 7= <0.2m				
		; 1 = >0 -	10%; 2 = >10 -	25%; 3 = >25 - 50°	%; 4 = >50%	J.	:			
STAND COMPO	SITION:	,				BA:				
SIZE CLASS AN	AL YSIS:	I	\ < 10	D 10 - 24	₹ 25 - 50	√ > 50	<i>;</i> 1			
STANDING SNA							] 1			
DEADFALL / LO			<ul><li>1√   &lt; 10</li><li>0   &lt; 10</li></ul>	R 10 - 24	№ 25 - 50 R 25 - 50					
ABUNDANCE COL		N = NON		O = OCCASIONAL			J			
		11011					1			
COMMUNITY AC			PIONEER	YOUNG	MID-AGE	OLD GRWTH				
SOIL ANALYSIS	_					4.1				
TEXTURE: Si	CL	DEDTIL 6		MOTTLES/GLEY:	g = 10/14	G= N/A	1			
MOISTURE: 1005			OF ORGANICS: O BEDROCK:			(cm)				
					·	(cm)	1			
	OMMUNITY CLASSIFICATION: ELC CODE									
COMMUNITY			REST		-0	<del>.</del>				
	ECOSITE: May Sugar Mayle Levia Korest Elogate FOD-6									
	Firesh and St. P. V. J. And									
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	ELC	SITE							
	<del>_</del>	DAT		C #	2/f	00m6-1	/u	1044	
	WILDLIFE		E: 16 コ VEYORS:	uly		· · · · · · · · · · · · · · · · · · ·			
•	**************************************			9121		END TIME:	315		
TENAT	(°C): 25				14 / - 1	·	<u> </u>		
CON	DITIONS:	JCLOU	D (10th): O	IVVIND:	W-/	PRECIPITATION:			
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PUI	VERNAL POOLS	IFE H/	ABIIAI;		] [	CNIACO			
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-						ALLEN LOGS			
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BREE	DING BIRD - PRO								
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BREE	DING BIRD - COI	NFIRM	ED:						
		DD = D	ISTRACTION		NU = U	SED NEST	FY =	FLEDGED YOUN	IG
		NE = E AE = N	GGS EST ENTRY		NY = Y	OUNG	FS =	FOOD/FECAL SA	CK
OTHE	R WILDLIFE EVII	DENCE	<b>:</b>						, .
			 BSERVED		V0 = V	OCALIZATION		CA = CARCASS	
			ISTINCTIVE PAR	TS		OUSE/DEN		FY = EGGS/YOU	NG
		TK = TF	RACKS			EEDING EVIDENC		ŚC = SCAT	
		SI = OT	HER SIGNS (spe	cify)	·				
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ELO	•	SITE: ERNESTOWN									
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WATER TABLE						-					
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ORGANICS											
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PORE SIZE DISC #2	2										
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ELC	SITE: Ernestoun
ELC	POLYGON: ELC#3 WODY-15/FODM7-6
PLANT	DATE: O July 2012
SPECIES LIST	SURVEYORS: Rob tym stra

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

ABUNDANCE CODES	: R = F	RARE	0 = 0	OCCAS	SIONAL	A =	ABUNDANT D = DOMIN	IANT				1
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CARYOUA	0	<del> </del>	1			1	ULMU AME			0		
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Γ	ELC		SITE:	ERNESTO	NN N	POLYGON: F	opM7-6/4	1004 WOOLB
	COMMUNI	ITY .	SURVE	YORS:	DATE:	TIME: start	1325	Wood
	DESCRIPTION	& AC		yRT	10 JULY 12	end	1440	
	CLASSIFICA	TION	UTMZ: S	UTME: 3622	-33	UTMN: 4890	3362	
PO	DLYGON DES	SCRIPTION	ON:					•
<u> </u>		1	0111	TOPOGRAPHIC		PLANT		1
	SYSTEM	SUBS	TRATE	FEATURE	HISTORY	FORM	COMMUNITY	
Q	Terrestrial	□Organ		□Lacustrine	⊠Natural	□Plakton	□Lake	
	Wetland	☑Minera		□Riverine	□Cultural	□Submerged	□Pond	
	Aquatic	□Paren	t Mat'l	□Bottomland		□Floating-LVD	□River	
		□Acidic	Bedrock	□Terrace		□Graminoid	□Stream	
		☐Basic I	Bedrock	□Valley Slope		□Forb	□Marsh	
		□Carb. E	Bedrock	<b>⊟</b> Tableland		□Lichen	□Swamp	
				□Roll Upland	ĺ	□Bryophyte	□Fen	
	:			□Cliff		☑ Deciduous	□Bog	. "
				□Talus		□Coniferous	□Barren	
				□Crevice/Cave		##Mixed	□Meadow	
	SITE:			□Alvar			□Prairie	
	SIIE:			□Rockland	00)/50		□Thicket	1 Ay
	Open Water			□Beach/Bar	COVER:		□Savannah	1.00
	Shallow Water			□Sand Dune	□Open	*	□Woodland	
133	Surficial Dep		l	□Bluff	□Shrub		⊡Forest	
	Bedrock				□7 reed		□Plantation	
ST	AND DESCRI	PTION:						
		1		SPECIES IN OR	DER OF DECRE	ASING DOMINAN	ICE (up to 4 sp)	
	LAYER	нт	CVR			eater than; = Abo		and the second
1 C	anopy	2	4			> TSUGCAN		
2 S	ub-Canopy	3	14	Hm2 1/ 3	It in Ame	STRUIRSI	1 MUAME	
3 U	nderstory	4	2	78 1		5x5>trax/		
4 G	rd. Layer	5,6	7_	PODE PEL	> VIVIA SA		498p.	
	HT CODES:	1= >= 25m	; 2= 10 - <	25m; 3= 2 - <10m;	4= 1 - <2m; 5= 0.5	-/<1m; 6= 0.2 - <0.5	m; 7= <0.2m	J
	CVR CODES:	0 = None;	; 1 = >0 -	10%; 2 = >10 - 2	5%; 3 = >25 - 50°	%; 4 = >50%	r	
ST	AND COMPO	SITION:	····				BA:	
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	E CLASS AN					R 25 - 50	∧∕ > 50	
	ANDING SNA			て < 10	C 10 - 24	/√ 25 - 50	√ > 50	• • • • • • • • • • • • • • • • • • •
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٩Bl	INDANCE COL	DES: 1	N = NON	E R=RARE O	= OCCASIONAL	A = ABUNDANT		
CO	MMUNITY AC	GE:		PIONEER	YOUNG	✓ MID-AGE	OLD GRWTH	F
SOI	L ANALYSIS	:						
	TURE: 5/			DEPTH TO M	OTTLES/GLEY:	n= 60	G= NIA	
ION		Gres h	DEPTH C	F ORGANICS:	1	3	(cm)	l
				O BEDROCK:	999		(cm)	lo.
	MMUNITY CL					ELC (	· · · · · · · · · · · · · · · · · · ·	*
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	OMMUNITY S		7-	orest dec	<del>,,,                                  </del>	F - A		1
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	VEGETATION		resh-	DI Fores	T Econie	<del></del>	/	
		— . , ,	MOISK	BLACK WIN - N	anoword,		<i>I</i>	
		USION:	MOISV	Devid Fore	St type	FODM 7-	<u>6</u>	

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	ELC	-	YGON: GU	C#3	11	204 B/ FOI	2m7	-6		
		DATE		y 10	1201	<u>z</u> '	·····			
	WILDLIFE		VEYORS:	325		END TIME:	1440	,		
<u> </u>			+				1990			
	(°C): 27	CLOU	D (10th):	WIND:	WZ	PREÇIPITATION:	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
COND	ITIONS:									
POTI	ENTIAL WILDL	IFE HA	ABITAT:			/				
	VERNAL POOLS				V,	SNAGS				
	HIBERNACULA				<b>✓</b>	FALLEN LOGS				
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SPE	IES LIST:						.,			
TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#	
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	ENCE CODES		_							
BREE	DING BIRD - PC				01-					
			SUITABLE HABIT	IAI	SM = :	SINGING MALE				
BREE	DING BIRD - PF									
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		A = AN	IXIETY BEHAVIO	UUR	N = N	EST BUILDING		V = VISITING N	ESI	
BREE	DING BIRD - CO	NFIRM	IED:							
		DD = [	DISTRACTION		NU =	USED NEST	FY=	FLEDGED YOU	ING	
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OTHE	R WILDLIFE EV	IDENC	E:							
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		SI = O	THER SIGNS (s	pecify)				_ /	. 1	

INCLUSION Courtened Organis Shaddow Marsa May 0 1-1	VEGETATION TYPE: Creen Not 019 mile 50001	ECOSITE: AR Dignaric Occasion SWOOD	COMMUNITY SERIES: Decederal Swap	COMMUNITY CLASS: Source	COMMUNITY CLASSIFICATION: ELC CODE	HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK:	MOISTURE: DEPTH OF ORGANICS:	TEXTURE: C DEPTH TO MOTTLES / GLEY   g = 1 ( 0 M >   G=	SOIL ANALYSIS:	COMM. AGE: PIONEER YOUNG MID-AGE MATURE C	ABUNDANCE CODES: N = NONE R = RARE 0 = OCCASIONAL A = ABUNDANT	DEADFALL / LOGS:    ₹  <10    ∧  10 - 24    √  25 - 50    √	STANDING SNAGS:	SIZE CLASS ANALYSIS:   ⊘   <10   △   10 - 24   ○   25 - 50   Ⅳ	STAND COMPOSITION: ころ(ろ) BA:	ONE 1=0% CVR 10% 2=10 CVR 25% 3=25 CVR 60% 4= CVR > 60%	ATEX	CONTRACTO -	_	LATEX III CAX (>>	5	STAND DESCRIPTION:	GRUFF	G OPEN	COVER G MIXED	BASIC BEDRK. G CLIFF G DECIDIOUS	G PARENT MIN. G TERRACE G ACIDIC BEDRY. G TANIF I AND G ACIDIC BEDRY. G TANIF I AND G LOPE G FORB G FORB G LOPE G FORB G LOPE G FORB G	G TERRESTRIAL G ORGANIC G LACUSTRINE G NATURAL G SUMERGED G POIND G OUTURAL G SUMERGED G POIND G OUTURAL G SUMERGED G POIND G RIVER	SYSTEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMM	DESCRIPTION	CLASSIFICATION UTMZ: UTME: UTMN:	COMMUNITY SURVEYOR(S):  COMMUNITY	EIC SITE: EINCONSON WIND POLYGON: 28,29,	
· North and a second	Notes:			The state of the s	DE	(cm)	) (cm)	1. Chans		OLD		> 50 COMINIONITY PROFILE DIAGRAIN	> 50	> 50	STAND COMPOSITION:		BASAL AREA (BA)	TOTAL			(sp)		NIATION	OKET VANIVAH VONIVAH VONIVAN VANIVAH VONIVAN VANIVAH VONIVAN VANIVAN V	AKEN ARIE	4	REAM ROBH AMP	SPECIES TALLY 1 1	COMMUNITY PRISM FACTOR	TREE TALLY BY SPECIES:	CHARACTERISTICS SI			ひとをのてり 己子 言語

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Notes: MCLUIS-COMPLEX

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STAND ACTERISTICS 0 POLYGON:
DATE:
SURVEYOR(S): 10 Carl Carl

TALLY 2 TALLY 3 TALLY 4 TALLY 5 TOTAL

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DEPTH TO / OF SOIL SOIL **SURFACE ROCKINESS SURFACE STONINESS** COURSE FRAGMENTS COURSE TRAGMENTS COURSE FRAGMENTS EFFECTIVE TEXTURE P/A PP Dr Position Aspect % DEPTH OF ORGANICS MOISTURE REGIME SOIL SURVEY MAP PORE SIZE DISC 42 PORE SIZE DISC 對 LEGEND CLASS CARBONATES WATER TABLE SOILS ONTARIO TEXTURE BALINEL BEDROCK MOTTLE8 TEXTURE GLEY 100 SITE: FLASONO COLOR OF POLYGON: 28, 19, 30

DATE: July 18, 20, 7

SURVEYOR(S): MARK Slope Туре N Class Z ယ EASTING MTU NORTHING CJI

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT	LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3	LIST SURVEYOR(S):	SPECIES DATE:	POLYGON: 2	SITE:	
ABUNDANT D=DOMINANT	1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER	Mill			End will the way from a want of bounding	The state of the s

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANI	RARE	٥	oc c	ASIO	VAL A=A	BUND	ANI DE DOMINANI	1			4		
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MANAGEMENT / DATE: TOON: 2 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ENT = SCORE	† INTENSITY x EXTENT = SCORE			(	
DATE:		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT
NONE LOCAL WIDESPREAD EXTENSIVE NONE LOCAL WIDESPREAD EXTENSIVE		HEAVY	MODERATE	ЏСНТ	NONE	
POLYGON: 2		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF ICE DAMAGE
DOLYGON: 2		HEAVY	MODERATE	LIGHT	NONE	ICE DAMAGE
POLLYGON: 2		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF FIRE
POLLYGON: 28 3 3 SCORE  SURVEYOR(S): 2 3 SCORE  NONE 16-30 YRS 5-18 YRS 0-5 YEARS  NONE 16-30 YRS 5-18 YRS 0-5 YEARS  NONE 16-30 YRS 5-18 YRS 0-5 YEARS  NONE 16-30 YRS 5-18 YRS 0-5 YEARS  NONE 16-30 YRS 5-18 YRS 0-5 YEARS  NONE 16-30 YRS 15-18 YRS 0-5 YEARS  NONE 16-30 YRS 5-18 YRS 0-5 YEARS  NONE 16-30 YRS 15-18 YRS 0-5 YEARS  NONE 16-30 YRS 15-18 YRS 0-5 YEARS  NONE 16-30 YRS 5-18 YRS 0-5 YEARS  NONE 16-30 YRS 15-18 YRS 0-5 YRS 15-18 YRS 0-5 YRS 15-18 YRS 0-5 YRS 15-18 YRS		HEAVY	MODERATE	ЦСНТ	NONE	FIRE
DATE:   SURVEYOR(S):   SURVEYOR(S):   SURVEYOR(S):   STENSIVE		EXTENSIVE	WIDESPREAD-	LOCAL	NONE	EXTENT OF FLOODING
POLYGON: 2 3 SCORE  SURVEYOR(S):		HEAVY	MODERATE	(цент)	NONE	FLOODING (pools & puddling)
Politic   Poli		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF BEAVER
POLITE:  POLITION:  POLITION:  DATE:  SURVEYOR(S):  NONE  15-30 YRS  15-30 YRS  5-15 YRS  0-5 YEARS  SCORE  NONE  LOCAL  MODESPREAD  EXTENSIVE  MODESPREAD  EXTENSIVE  MODESPREAD  EXTENSIVE  EXTENSIVE  MODESPREAD  EXTENSIVE  MODESPREAD  EXTENSIVE		HEAVY	MODERATE	ЦВНТ	NONE	BEAVER ACTIVITY
DATE:   DATE		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF BROWSE
DATE: DATE: SURVEYOR(S): SURVEYOR(S): SURVEYOR(S): SURVEYOR(S): SURVEYOR(S): NONE SURVEYOR(S): NONE SURVEYOR(S): NONE SURVEYOR(S): NONE SURVEYOR(S): NONE SURVEYOR(S): NONE SURVEYOR(S): NONE SURVEYOR(S): NONE SURVEYOR(S): SURVE		HEAVY	MODERATE	Пент	NONE	BROWSE (e.g. DEER)
POLYGON: 2 3 3 SCORE  POLYGON; 2 3 3 SCORE  SURVEYOR(S): 1 2 3 SCORE  NONE 15-30 YRS 5-15 YRS 0-5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF WIND THROW
DATE: SURVEYOR(S):  SURVEYOR(S):  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NODESPREAD		HEAVY	MODERATE	ЦВНТ	NONE	WIND THROW (BLOW DOWN)
DATE: SURVEYOR(S):  SURVEYOR(S):  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NONE		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF DISEASE / DEATH
DATE: SURVEYOR(S):  NONE  NONE  NONE  NONE  LIGHT  NONE  LOCAL  NONE		HEAVY	MODERATE	LIGHT	NONE	DISEASE/DEATH OF TREES
DATE: SURVEYOR(S):  NONE  POLYGON: SURVEYOR(S):  15-30 YRS  15-30 YRS  15-30 YRS  NONE  LOCAL  NODESPREAD  EXTENSIVE  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  HEAVY  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF NOISE
DATE: SURVEYOR(S):  NONE  POLYGON: SURVEYOR(S):  15-30 YRS  15-30 YRS  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NODERATE  HEAVY  NONE  NONE  LOCAL  NON		INTENSE	MODERATE	SLIGHT	NONE	NOISE
DATE: JOA		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF RECR. USE
DATE:  DATE:  DATE:  SURVEYOR(S):  15-30 YRS  15-30 YRS  15-30 YRS  15-30 YRS  15-30 YRS  NONE  LOCAL  NODESPREAD  EXTENSIVE  EXTENSIVE  LOCAL  NONE  LOCAL  NODESPREAD  EXTENSIVE  LOCAL  NONE  LOCAL  NODESPREAD  EXTENSIVE  LOCAL  NONE  LOCAL  NODESPREAD  EXTENSIVE		HEAVY	MODERATE	Цент	NONE	RECREATIONAL USE
POLYGON:  SURVEYOR(S):  SURVEYOR(S):  10 1 2  SURVEYOR(S):  NONE 15-30 YRS 5-15 YRS 0-5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF DISPLACEMENT
DATE: SURVEYOR(S):  NONE  NONE  LOCAL  NONE		HEAVY	MODERATE	Пент	ANON	EARTH DISPLACEMENT
DATE: SURVEYOR(S):  NONE  NONE  NONE  LOCAL		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF DUMPING
DATE:  DATE:  SURVEYOR(S):  NONE  PUEL WOOD  SELECTIVE  NONE  LOCAL  NORE  LOCAL  NORE  LOCAL  NORE  LOCAL  NORE  LOCAL  NORE  LOCAL  N		HEAVY	MODERATE	Пент	NONE	DUMPING (RUBBISH)
DATE: 15.30 YRS 5.15 YRS 0.5 YEARS  SURVEYOR(S): 2 3 SCORE  > 30 YRS 15.30 YRS 5.15 YRS 0.5 YEARS  > 30 YRS 15.30 YRS 5.15 YRS 0.5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD TRACKS OR		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF TRACKS/TRAILS
POLYGON: 25 3 3 SCORE SURVEYOR(S): 2 3 SCORE  NONE 15-30 YRS 5-15 YRS 0-5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL ABUNDANT DOMINANT  NONE LOCAL ABUNDANT DOMINANT  NONE LOCAL WIDESPREAD EXTENSIVE  LOCAL ABUNDANT DOMINANT  NONE LOCAL ABUNDANT DOMINANT  NONE LOCAL MIDESPREAD EXTENSIVE		TRACKS OR	WELL MARKED	FAINT TRAILS	NONE	TRACKS AND TRAILS
POLYGON:  POLYGON:  SURVEYOR(S):  NONE  SURVEYOR(S):  NONE  SURVEYOR(S):  NONE  SURVEYOR(S):  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NONE  NONE  NONE  LOCAL  NONE  NONE  LOCAL  NONE  NONE  LOCAL  NONE  NONE  NONE  LOCAL  NONE  NONE  LOCAL  NONE  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NONE  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  LOCAL  NODESPREAD  EXTENSIVE  NONE  OCCASIONAL  ABUNDANT  DOMINAN		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF PLANTING
NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL MODERATE HEAVY		DOMINANT	TNAGNUBA	OCCASIONAL	NONE	PLANTING (PLANTATION)
NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL MIDESPREAD EXTENSIVE  NONE LOCAL MIDESPREAD EXTENSIVE  NONE LOCAL MIDESPREAD EXTENSIVE  NONE LOCAL MIDESPREAD EXTENSIVE  NONE LOCAL MIDESPREAD EXTENSIVE		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF ALIEN SPECIES
POLYGON: 2 3 3 SCORE  DATE: 15 30 YRS 5 -15 YRS 0 - 5 YEARS  NONE 15 -30 YRS 5 -15 YRS 0 - 5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE		DOMINANT	TNADNUBA	OCCASIONAL	NONE (	ALIEN SPECIES
DATE: SURVEYOR(S): SURVEYOR(S): SURVEYOR(S): SURVEYOR(S): SURVEYOR(S): S-15 YRS O-5 YEARS  > 30 YRS 15-30 YRS 5-15 YRS O-5 YEARS  > 30 YRS 15-30 YRS 5-15 YRS O-5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF LIVESTOCK
POLYGON: 25 3 3 SCORE SURVEYOR(S): 2 3 SCORE  NONE 15-30 YRS 5-15 YRS 0-5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE		HEAVY	MODERATE	ПВНТ	NONE	LIVESTOCK (GRAZING)
POLYGON: 2 3 SCORE  POLYGON: 2 3 SCORE  SURVEYOR(S): 2 3 SCORE  NONE 15-30 YRS 5-15 YRS 0-5 YEARS  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LOCAL WIDESPREAD EXTENSIVE  S NONE LOCAL WIDESPREAD EXTENSIVE  NONE SMALL INTERMEDIATE LARGE		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF GAPS
DATE:		LARGE	INTERMEDIATE	SMALL	NONE	GAPS IN FOREST CANOPY
POLYGON: 2 3 SCORE  DATE: 15 15 15 7RS 0 - 5 YEARS  INT 0 1 2 3 SCORE  NONE FUEL WOOD SELECTIVE DIAMETER LIMIT  NONE LOCAL WIDESPREAD EXTENSIVE  NONE LIGHT MODERATE HEAVY		EXTENSIVE	WIDESPREAD	LOCAL	NONE )	EXTENT OF OPERATIONS
DATE:		HEAVY	MODERATE	Пент	NONE	SUGAR BUSH OPERATIONS
DATE:		EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF LOGGING
POLYGON: 2 3 3 SCORE  NT 0 1 2 3 SCORE  > 30 YRS 15-30 YRS 5-15 YRS 0-5 YEARS		DIAMETER LIMIT	SELECTIVE	FUEL WOOD	NONE	INTENSITY OF LOGGING
DATE: 7/2 / 3 / 3 / SURVEYOR(S): 7/4 / 2 / 3   SCORE		0 - 5 YEARS	5 - 15 YRS	15 - 30 YRS	> 30 YRS	TIME SINCE LOGGING
POLYGON: 2 3 3 1 DATE: SURVEYOR(S):	SCORE †	3	2	1	0	DISTURBANCE / EXTENT
POLYGON: 27 29 3				(S):	SURVEYOR	DISTURBANCE
			1.	1000	DATE: "	`
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WILDLIFE

TEMP (°C): 25

CLOUD (10th): // WIND: ? | PRECIPITATION:

TEMP (°C): 25 | CLOUD (10th): 10 | WIND: 2 | PRECIPITATION: K | 1/2 | CONDITIONS:

# POTENTIAL WILDLIFE HABITAT:

	8	VERNAL POOLS	X	SNAGS
·		HIBERNACULA	X	FALLEN LOGS

# SPECIES LIST:

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FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SH SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY
A = ANXIETY BEHAVIOUR
BREEDING BIRD - CONFIRMED:
DD = DISTRACTION
NE = EGGS
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED
DP = DISTINCTIVE PARTS
TK = TRACKS
SI = OTHER SIGNS (specify)

FE = FEEDING EVIDENCE
SC = SCAT

FOOTHER SIGNS (specify)

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G OPEN WATER
G SHALLOW WATER
G SURFICIAL DEP.
G BEBROCK G-WETLAND SIZE CLASS ANALYSIS: STAND COMPOSITION: 3 UNDERSTOREY COMMUNITY
DESCRIPTION &
CLASSIFICATION COMMUNITY CLASSIFICATION: COMM, AGE: DEADFALL / LOGS: STANDING SNAGS: HT CODES: G AQUATIC G TERRESTRIAL POLYGON DESCRIPTION TEXTURE: ABUNDANCE CODES: STAND DESCRIPTION MOISTURE: OMOGENEOUS / VARIABLE GRD. LAYER SUB-CANOPY COMMUNITY SERIES: COMMUNITY CLASS: LAYER SYSTEM VEGETATION TYPE: SITE CANOPY INCLUSION COMPLEX ECOSITE: 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60% G BASIC BEDRK. G PARENT MIN. UTMZ: SURVEYOR(S): 1=>25 m 2=10<HT<25 m 3=2<HT<10 m 4=1<HT<2 m 5=0.5<HT<1 m 6=0.2<HT<0.5 m 7=HT<0.2 m G MINERAL SOIL G ORGANIC 폭 SUBSTRATE ACIDIC BEDRK N = NONE CVR PIONEER X YOUNG NOCT CA UTME: G RACUSTRINE
G ROYERINE
G BOTTOMLAND
G BOTTOMLAND
G TABLELAND
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G CAV DEPTH TO BEDROCK: SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO) TOPOGRAPHIC FEATURE **R** ■ RARE Þ DEPTH OF ORGANICS: DEPTH TO MOTTLES / GLEY < 10 **^** 10 **^**10 Decederals O = OCCASIONAL G CULTURAL G SHRUB HISTORY COVER MID-AGE 10 - 24 10 - 24 10 - 24 2000 100 UTMN: G PLANKTON
G SUBMERGED
G FLOATING-LVD.
G GRAMINOID
G FORB
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G G= COMMUNITY OLD GROWTH > 50 > 50 > 50 (cm G H COMMUNITY PROFILE DIAGRAM STAND COMPOSITION TREE TALLY BY SPECIES: BASAL AREA (BA) STAND CHARACTERISTICS SPECIES PRISM FACTOR TOTAL DEAD TALLY 1 SITE: POLYGON: DATE: SURVEYOR(S): TALLY 2 TALLY 3 TALLY 4

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Notes:

c α ω 4 το SURFACE ROCKINESS SURFACE STONINESS COURSE FRAGMENTS COURSE FRAGMENTS COURSE FRAGMENTS EFFECTIVE TEXTURE DEPTH OF ORGANICS TEXTURE x HORIZON P/A PP Dr Position Aspect % Type Class MOISTURE REGIME PORE SIZE DISC #2 PORE SIZE DISC #1 SOIL SURVEY MAP LEGEND CLASS WATER TABLE CARBONATES SOILS ONTARIO TEXTURE BEDROCK TEXTURE MOTTLES TEXTURE SOIL GLEY N ယ EASTING MIN NORTHING (J) The state of the s

PLANT SPECIES LIST  SITE: FRANCE  POLYGON: 19  POLYGON: 1	1=CANOPY 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER	3 = UNDERSTO	OPY 2=SUB-CANOPY	1 = CANO
SITE: POLYGOI DATE:		SAME.	SURVEYOR(S):	LIST
SITE: POLYGO	The State of the S	0,16,	DATE:	SPECIES
SITE:		19	POLYGON:	
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NSIVE  NSIVE  NSIVE  NSIVE  NSIVE	EXTEN  EXTEN  EXTEN  EXTEN  EXTEN  EXTEN  HEA  EXTEN  HEA  HEA  EXTEN  HEA  HEA  HEA  HEA  HEA  HEA  HEA  H	MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD	SLIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT	NONE NONE NONE NONE NONE	MIND THROW (BLOW DOWN)  EXTENT OF WIND THROW  BROWSE (e.g. DEER)  EXTENT OF BROWSE  EXTENT OF BROWSE  EXTENT OF BEAVER  EXTENT OF FLOODING  EXTENT OF FLOODING  EXTENT OF FIRE  CE DAMAGE  EXTENT OF IRE  EXTENT OF IRE  EXTENT OF IRE  EXTENT OF IRE  EXTENT OF IRE  EXTENT OF IRE  EXTENT OF IRE  EXTENT OF IRE
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NSIVE NSIVE	EXTEN HEA HEA HEA HEA HEA HEA HEA HEA HEA HEA	MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE	SLIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT  LOCAL  LIGHT	NONE NONE NONE NONE NONE	WIND THROW (BLOW DOWN)  EXTENT OF WIND THROW  BROWSE (e.g. DEER)  EXTENT OF BROWSE  BEAVER ACTIVITY  EXTENT OF BEAVER  EXTENT OF BEAVER  FLOODING (pools & puddling)  EXTENT OF FLOODING  EXTENT OF FLOODING  EXTENT OF FLOODING
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NSIVE NSIVE	EXTEN HEA EXTEN HEA HEA	MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE	SLIGHT LOCAL LIGHT LOCAL LIGHT LOCAL LIGHT LOCAL LIGHT LOCAL LIGHT	NONE NONE NONE	WIND THROW (BLOW DOWN)  EXTENT OF WIND THROW  BROWSE (e.g. DEER)  EXTENT OF BROWSE  BEAVER ACTIVITY
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γγ	EXTEN	MODERATE  WIDESPREAD  MODERATE  WIDESPREAD  MODERATE  WIDESPREAD	SLIGHT LOCAL LOCAL	NONE	
NSIVE		MODESPREAD MODESPREAD MODESPREAD MODESPREAD	SLIGHT	NONE	EXTENT OF DISEASE / DEATH
WY	НЕАVY	MODERATE  MODERATE  MODERATE	SLIGHT	NONE	DISEASE/DEATH OF TREES
NSIVE	EXTENSIVE	MODERATE  MODERATE	SLIGHT	-	EXTENT OF NOISE
NSE	INTENSE	MODERATE WIDESPREAD	LUCAL	NONE	NOISE
NSIVE	EXTENSIVE	MODERATE	1004	NONE	EXTENT OF RECR. USE
W	HEAVY		цент	NONE	RECREATIONAL USE
NSIVE	EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF DISPLACEMENT
ΥVY	HEAVY	MODERATE	Пент	NONE	EARTH DISPLACEMENT
NSIVE	EXTENSIVE	WIDESPREAD	/Local )	NONE	EXTENT OF DUMPING
γνγ	HEAVY	MODERATE	Пент	NONE	DUMPING (RUBBISH)
NSIVE	EXTENSIVE	WIDESPREAD	LOCAL	\ NONE	EXTENT OF TRACKS/TRAILS
KSOR	TRACKS OR	WELL MARKED	FAINT TRAILS	NONE	TRACKS AND TRAILS
NSIVE	EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF PLANTING
NANT	DOMINANT	ABUNDANT	OCCASIONAL	NONE .	PLANTING (PLANTATION)
NSIVE	EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF ALIEN SPECIES
NANT	DOMINANT	ABUNDANT	OCCASIONAL	NONE	ALIEN SPECIES
NSIVE	EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF LIVESTOCK
άVY	HEAVY	MODERATE	Цент	NONE	LIVESTOCK (GRAZING)
NSIVE	EXTENSIVE	WIDESPREAD	/LOCAL	NONE	EXTENT OF GAPS
ROE	LARGE	INTERMEDIATE	SMALL	NONE	GAPS IN FOREST CANOPY
NSIVE	EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF OPERATIONS
AWY	HEAVY	MODERATE	ЦВНТ	NONE	SUGAR BUSH OPERATIONS
NSIVE	EXTENSIVE	WIDESPREAD	LOCAL	NONE	EXTENT OF LOGGING
ER LIMIT	DIAMETER LIMIT	SELECTIVE	FUEL WOOD	NONE	INTENSITY OF LOGGING
rears	0 - 5 YEARS	5 - 15 YRS	15 - 30 YRS	> 30 YRS	TIME SINCE LOGGING
3 SCORE †		2	1		DISTURBANCE / EXTENT
			R(S): MARC	SURVEYOR(S):	DISTURBANCE
		610%	16	DATE:	MANAGEMENT /
				POLTGON:	

HIBERNACULA	VERNAL POOLS × SNAGS	POTENTIAL WILDLIFE HABITAT:	CONDITIONS:	TEMP (°C): 33 CLOUD (10th): 70 WIND: 1-2 PREC	START TIME: END TIME	WILDLIFE SURVEYOR(S): MM	DATE: J.D. 16 T.C.	POLYGON: / 9	SITE: Company of the second
FALLEN LOGS	GS .		100000000000000000000000000000000000000	PRECIPITATION:	TIME:		12		Co. So facewha

DIES LIST:								
SP. CODE	E۷	NOTES	#	7	SP. CODE	ΕV	NOTES	#
ANG O	ĭ							
								ĺ
	L							l
JAI TYPE CODES	3							
3 = BIRD M = MAN ENCE CODES (EN DING BIRD - POSSIE SH = SUITABLE HAB	¬	H = HERPETO	FAUNA	≤		FISH	O = OTHER	
DING BIRD - PROBA	BLE:	D = DISF	T BUIL	DING	P = PAIF V = VISI	TING N	EST	
DING BIRD - CONFII DD = DISTRACTION NE = EGGS NE = NEST ENTRY	RMED:	NU = VS	UNG ED NE	81	FY = FL	EDGEL OD/FA	YOUNG ECAL SACK	
R WILDLIFE EVIDEN DB = OBSERVED DP = DISTINCTIVE P IK = TRACKS II = OTHER SIGNS (8	ARTS	VO = VO HO = HC FE = FEI	CALIZ JUSE/D EDING	ATION EN		RCAS: GS OR	S YOUNG	
	SPECIES LIST:  TY SP. CODE  SP. CODE  PD. CODE  PD. CODE  BP. CODES  B = BIRD M = MAN  BREEDING BIRD - POSSIE  SH = SUITABLE HAB  BREEDING BIRD - PROBA  T = TERRITORY  A = ANXIETY BEHAV  A = ANXIETY BEHAV  A = ANXIETY BEHAV  BREEDING BIRD - CONFIL  DD = DISTRACTION  NE = EGGS  AE = NEST ENTRY  OTHER WILDLIFE EVIDEN  OB = OBSERVED  DD = DISTRACTIVE P  TK = TRACKS  SI = OTHER SIGNS (s)	DE EV  DE EV  SMI  SMI  SMI  SMI  SMI  SMI  SMI  SM	iy) s D. R :: 7 F.D. H. H. H. H. H. H. H. H. H. H. H. H. H.	iy) s D. R :: 7 F.D. H. H. H. H. H. H. H. H. H. H. H. H. H.	ONOTES #  NO	NOTES #  TY SP.CC  NOTES #  TY SP.CC  TY SM = SINGING MALE  TY SP.CC  TY SM = SINGING MALE  TY SP.CC  TY S	NOTES #  TY SP.CC  NOTES #  TY SP.CC  TY SM = SINGING MALE  TY SP.CC  TY SM = SINGING MALE  TY SP.CC  TY S	NOTES #  TY SP.CODE EV  SP.COD

## **HATCH**

Project Name: Einestown Wand Park	Project Number: H342036
Observer(s): mm6	Location: Emestown Wind Pak
Date: July 15, 2012	Time: 1400-1520
Temp: 27 %C.C: 100	Wind Speed: 2.3
Field ID: We OU Wetland Type: Maish	Site Type: Sold Dominant Form: Re
Field ID: Wetland Type: Marsh	Site Type. Scarce Dominant Form. 76
% Open Water: Water Depth (cm):	Seepage Y/N): Non Precipitates (Y/N):
Depth of Organics (cm): 25 (OL) C	<b>是</b> 。
Soil Horizon A Texture: CL Soil Horizon B Texture:	Depth to Mottles (cm): 6 Depth to Gley (cm): 15 Depth to Mottles (cm): Depth to Gley (cm):

CONTRACTOR CONTRACTOR

Vegetation Forms: Circle forms that are ≥25%; dominant species <sup>1</sup> , secondary species <sup>2</sup> , present species <sup>8</sup>				
Form	% of Form	Species Composition		
h	Augus			
С				
dc, dh, ds	wat grader and the			
ts	- 4	fraxmen pennagluanica		
Is		Salix petistaris, halter Sp.		
gc	15	Engatorium perfoliatum, Engatorium maculatumi rythnum sulcaria Phalarus arundinacia, Carex Sp., gunero Sp.		
ne	25	Phalarus arundenacia, carex sp. juneus sp.		
be				
re	60	Typha latifolia, Scripus microcarpies, S. validus		
ff	Control States			
f				
su				
m	- Anna	MOSSEO.		

#### **Other Observations**

Hypericum perforation



### **HATCH**

Project Nar	ne: Ernesh	own Wind Park	Project Number: H342036	
Observer(s	): MMB		Location: Einestown Wind Park	
Date:	dy /6,2	%C.C: 20	Time: 1500-1600	
Temp: 3	2.°C	%C.C: 2 ○	Wind Speed: 1-2	
		Wetland Type: Success		
% Open Wa	ater: 25% \	Water Depth (cm): > 浸っ	Seepage Y/N): Iron Precipitates (Y/N):	
Depth of Or	ganics (cm):	2 cm		
Soil Horizon Soil Horizon		51	Depth to Mottles (cm): Depth to Gley (cm): Depth to Gley (cm):	
Vegetation	Forms: Circl	e forms that are <u>≥</u> 25%; c	dominant species <sup>1</sup> , secondary species <sup>2</sup> , present species <sup>P</sup>	
Form	% of Form	Species Composition		
h	45%	FRAPENN T	WRECT	
С				
dc, dh, ds				
ts				
Is	25%	FRAPENN		
ac	il-	ONOSENS		

#### **Other Observations**

ne

be

re

ff

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su

m

Bullfrog reard calley and caradians sullowful



CAREX SP