

LOYALIST SOLAR LP Natural Heritage Assessment Site Investigation Report

Loyalist Solar Project

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1.0 Introduction

Loyalist Solar LP, a limited partnership between the Mohawks of the Bay of Quinte and BluEarth Renewables Inc. (together the "Proponent"), proposes to develop a non-rooftop solar facility with a maximum name plate capacity of 54 megawatts alternating current (" MW_{AC} "), in the Township of Stone Mills, County of Lennox & Addington, Ontario (**Figure 1**). The renewable energy facility will be known as the Loyalist Solar Project (the "Project").

The Proponent submitted a proposal to the Independent Electricity System Operator ("IESO") under the Large Renewable Procurement I ("LRP") process and was subsequently awarded a LRP contract by the IESO to generate electricity. The Project will now be subject to a number of approvals including, among others *Ontario Regulation 359/09* – Renewable Energy Approval ("REA") under Part V.0.1 of the Ontario *Environmental Protection Act*.

This *Natural Heritage Assessment* ("NHA") *Site Investigation Report* was completed in partial fulfillment of the regulatory requirements for the REA process. Following review and comment by the Ministry of Natural Resources and Forestry ("MNRF"), this report will be finalized for submission to the Ministry of the Environment and Climate Change ("MOECC") as part of the REA application. Additional details regarding the significance of identified natural features, potential impacts and the mitigation measures required to protect these features will be provided, as required, in the *NHA Evaluation of Significance* and *NHA Environmental Impact Study Reports*. These reports are submitted to the MNRF for review and comment, as required under *Ontario Regulation 359/09*. For a description of the requirements of a Natural Heritage Assessment, please refer to the MNRF's Natural Heritage Assessment Guide for Renewable Energy Projects (MNRF 2012). Discussion of Species at Risk, fish habitat and other information needs, as outlined in the MNRF's Approval and Permitting Requirements Document (APRD) for Renewable Energy (MNRF 2009), are discussed in separate reports, under direction from the MNRF and in compliance with the REA and other applicable legislation.

Table 1: Checklist for Requirements under Ontario Regulation 359/09- NHA Site Investigation

Required Documentation	Location in Report
A site investigation in accordance with the Table in section 26 of <i>Ontario Regulation</i> 3 either by visiting the site or by an alternative investigation of the site, for the purpose	
(a) whether the results of the analysis summarized in the "records review" report are correct or require correction, and identifying any required corrections.	Table 11: Summary of Amendments to the Records Review
(b) whether any additional natural features exist, other than those that were identified in the "records review" report.	Table 11: Summary of Amendments to the Records Review
(c) the boundaries, located within 50 m of the Project Location, of any natural feature that was identified in the records review or the site investigation.	Figures 5-7W



Required Documentation	Location in Report
(d) the distance from the Project Location to the boundaries determined under clause (c).	r Figures 5-7W
A report was prepared and submitted to the Ministry of Natural Resources and For following:	orestry that sets out the
(a) A summary of any corrections to the "records review" report and the determinations made as a result of conducting the site investigation.	Table 11: Summary of Amendment to the Records Review
(b) Information establishing the type of each natural feature identified in the records review and in the site investigation.	Section 7: Site Investigation Result
 (c) A map showing: the boundaries located within 50 m of the Project Location, of any nature feature that was identified in the records review or the site investigation the location and type of each natural feature identified in relation to the Project Location the distance from the Project Location to the boundaries determined under clause 1 (d) above 	on
(d) A summary of methods used to make observations for the purposes of the site investigation.	Section 6:Site Investigation Methodology
(e) The name and qualifications of any person conducting the site investigation	Section 6.5, Name and Qualifications of Site Investigators
 (f) If investigation was conducted by visiting the site: i. The dates and times of the beginning and completion of the site investigation ii. The duration of the site investigation iii. The weather conditions during the site investigation iv. Field notes kept by the person conducting the site investigation 	Section 7.1: Site Investigation Dates, Times, Duration, and Weather Conditions Appendix A
 (g) If an alternative investigation of the site was conducted: i. The dates of the generation of the data used in the site investigation ii. An explanation of why the person who conducted the alternative investigation determined that it was not reasonable to conduct the site investigation by visiting the site 	Section 7.1: Site Investigation Dates Times, Duration, and Weather Conditions Section 7.1.1: Access to Adjacent Land Appendix D: Figure D1



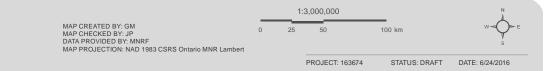




LOYALIST SOLAR LP

GENERAL PROJECT LOCATION FIGURE I





2.0 The Proponent

The Proponent is coordinating and managing the approvals process for the Project. The Proponent contact is:

Full Name of Company:	Loyalist Solar LP, c/o BluEarth Renewables Inc.
Prime Contact:	Tom Bird, Director, Regulatory
Address:	34 Harvard Road, Guelph, ON, N1G 4V8
Telephone:	1-844-214-2578
Email:	projects@bluearth.ca

Dillon Consulting Limited ("Dillon") has been retained by the Proponent to prepare the REA application for the Project. The contact at Dillon is:

Full Name of Company:	Dillon Consulting Limited		
Prime Contact:	Megan Bellamy, Project Manager		
Address:	235 Yorkland Boulevard, Suite 800, Toronto, ON, M2J 4Y8		
Telephone:	(416) 229-4646 ext. 2423		
Fax:	(416) 229-4692		
Email:	MBellamy@dillon.ca		



3.0 **Project Location**

This Class 3 Solar Facility is to be located within the Township of Stone Mills, in the County of Lennox and Addington, approximately nine kilometres north of Napanee, Ontario. The Project Location, situated on multiple privately owned parcels, consists of approximately 200 hectares (494 acres) and is contained within an area generally bounded on the north by Howe's Road, Craigen Road to the south, County Road 27 and Murphy road to the east and County Road 41 to the west (described as the "Project Location" on **Figure 2**). It has an approximate centroid at the following geographic coordinates:

- Latitude: 44°22'3.382" N
- Longitude: 76°58'19.534" W

Figure 2 overviews the maximum extent of the Project Location for the purposes of this *NHA Site Investigation Report.* The term "Project Location" is defined in *Ontario Regulation 359/09* to be a part of land and all or part of any building or structure in, on or over which a person is engaging in or proposes to engage in the Project and any air space in which a person is engaging in or proposes to engage in the Project Interview (Components making up the Project Location and their exact locations within the overall Project Location have yet to be determined. This information will be provided in the NHA Environmental Impact Study. Project components, including photovoltaic ("PV") panels and electrical facilities such as inverters, transformers, a substation and Project access roads will be located on private land. Some Project components, such as electrical collector lines and the connection line route to the substation will be located in open and un-opened road right-of-ways, Hydro One Networks Inc. (HONI) right-of-way or on private lands. **Figure 2** overviews the potential connection line routes that are under consideration as part of this *NHA Site Investigation Report* to connect the Project to the provincial electricity grid.

Figure 2 also includes the 50 m setbacks from the Project Location. This area was required to be assessed for natural features as per *Ontario Regulation 359/09*. Setback development prohibitions for solar facilities are outlined in Part V, Sections 37 and 38 of *Ontario Regulation 359/09* (amended May 1, 2016).

For the purposes of this NHA Site Investigation, all potential options identified for the Project Location boundary have been included and considered. As the Project progresses and field investigations are concluded, the Project Location boundary will be refined for reasons that may include, but are not limited to, the avoidance of sensitive natural features determined to be present (e.g. wetlands) and/or to accommodate other regulatory requirements and/or stakeholders input. From a comparison of Figure 2 in the *NHA Records Review Report* to **Figure 2** in the *NHA Site Investigation Report*, the Project Location has been refined to avoid wetlands delineated as part of the site investigation field studies.

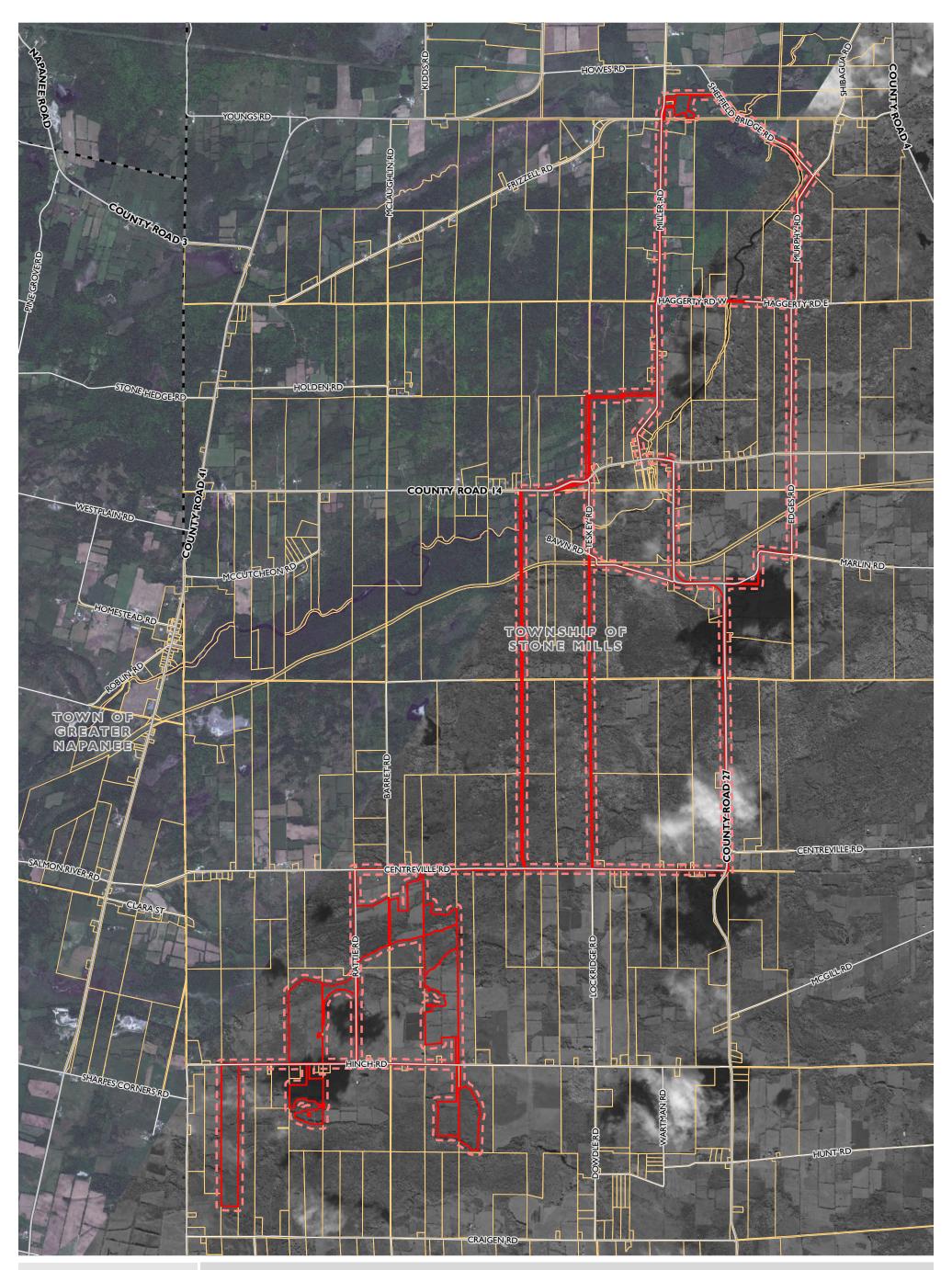


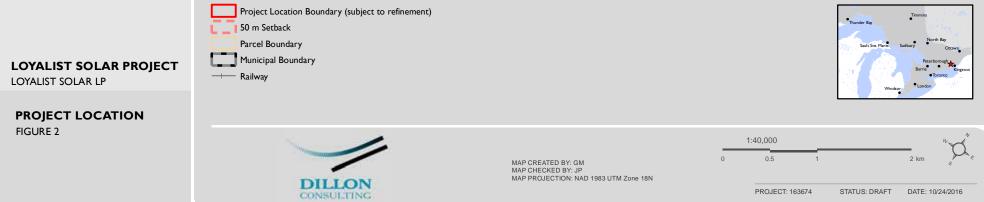
As detailed design progresses and the Project Location boundary is further refined, each individual NHA report will include a Project Location boundary established on the constraints known at the time of report preparation. For the preparation of this NHA Site Investigation Report, the known constraints are based on the area of land available to the project for use, and wetland areas that are, or will be assumed to be for the purposes of this NHA, provincially significant.

The Project Location boundary to be included in the *NHA Environmental Impact Study Report* will reflect, at a minimum, the final Project Location boundary provided to the MOECC as part of the REA application. For clarity, the final Project Location boundary will be the version provided as part of the site plan submitted within the *Design and Operations Report* to the MOECC. The final Project Location boundary will be equal to, or have less total area, than what is included in the NHA reporting.









4.0 **Results of Records Review**

As shown on **Figure 3**, a records review was completed according to Section 25 of *Ontario Regulation 359/09*. A summary of the determinations made during the records review is outlined in **Table 2**. The conclusions of the *NHA Records Review Report* are based on the Project Location as identified in Figure 2 of that report.

Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Provincial Parks and Cor				
No known features ident	tified within the Proje	ct Location or adjace	ent lands within 120 m.	N
ANSI, Life Science				
No known features iden	tified within the Proje	ct Location or adjace	ent lands within 50 m.	N
ANSI, Earth Science				
No known features ident	tified within the Proje	ct Location or adjace	ent lands within 50 m.	N
Wetlands				
Provincially Significant Wetlands	LIO Mapping	Provincially Significant	Two within the Project Location (Mud Creek and Hinch Swamp); two within 50 m of the Project Location (Pennell's Creek and Biddy's Lake).	Y
Evaluated Southern Wetlands	LIO Mapping	Not Provincially Significant	One within 50 m of the Project Location (Roblin Swamp).	Y
Unevaluated Southern Wetlands	LIO Mapping	Unevaluated	Several within the Project Location and within 50 m of the Project Location.	Y
Woodlands				
Unevaluated Southern Woodlands	LIO Mapping	Unevaluated	Several within the Project Location and within 50 m of the Project Location.	Y



Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Wildlife Habitat			·	
Seasonal Concentration	n Areas			
Waterfowl Stopover and	d Staging Areas (Terre	strial)		
No known features ident	tified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Waterfowl Stopover and	d Staging Areas (Aqua	tic)		
No known features ident	ified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Shorebird Migratory Sto	pover Areas			
No known features ident	tified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Raptor Wintering Area				
No known features ident	tified within the Project	ct Location or adjace	ent lands within 50 m.	Y
Bat Hibernacula				
No known features ident	tified within the Project	ct Location or adjace	ent lands within 50 m.	Y
Bat Maternity Colonies				
No known features ident	Y			
Bat Migratory Stopover	Areas			
There are no MNRF iden	tified Bat Migratory St	opover Areas within	n 50 m.	Ν
Turtle Wintering Areas				
No known features ident	Y			
Snake Hibernaculum				
No known features ident	ified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Colonially- Nesting Bird	Breeding Habitat (Bar	nk and Cliff)		
No known features ident	ified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Colonially- Nesting Bird	Breeding Habitat (Tre	e/ Shrubs)		
No known features ident	Y			
Colonially- Nesting Bird	Breeding Habitat (Gro	bund)		
No known features ident	ified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Migratory Butterfly Stop	oover Areas			
The Project Location is n	ot located within 5 km	n of Lake Ontario.		N
Landbird Migratory Stop	oover Areas			
The Proiect Location is n	ot located within 5 km	of Lake Ontario.		N



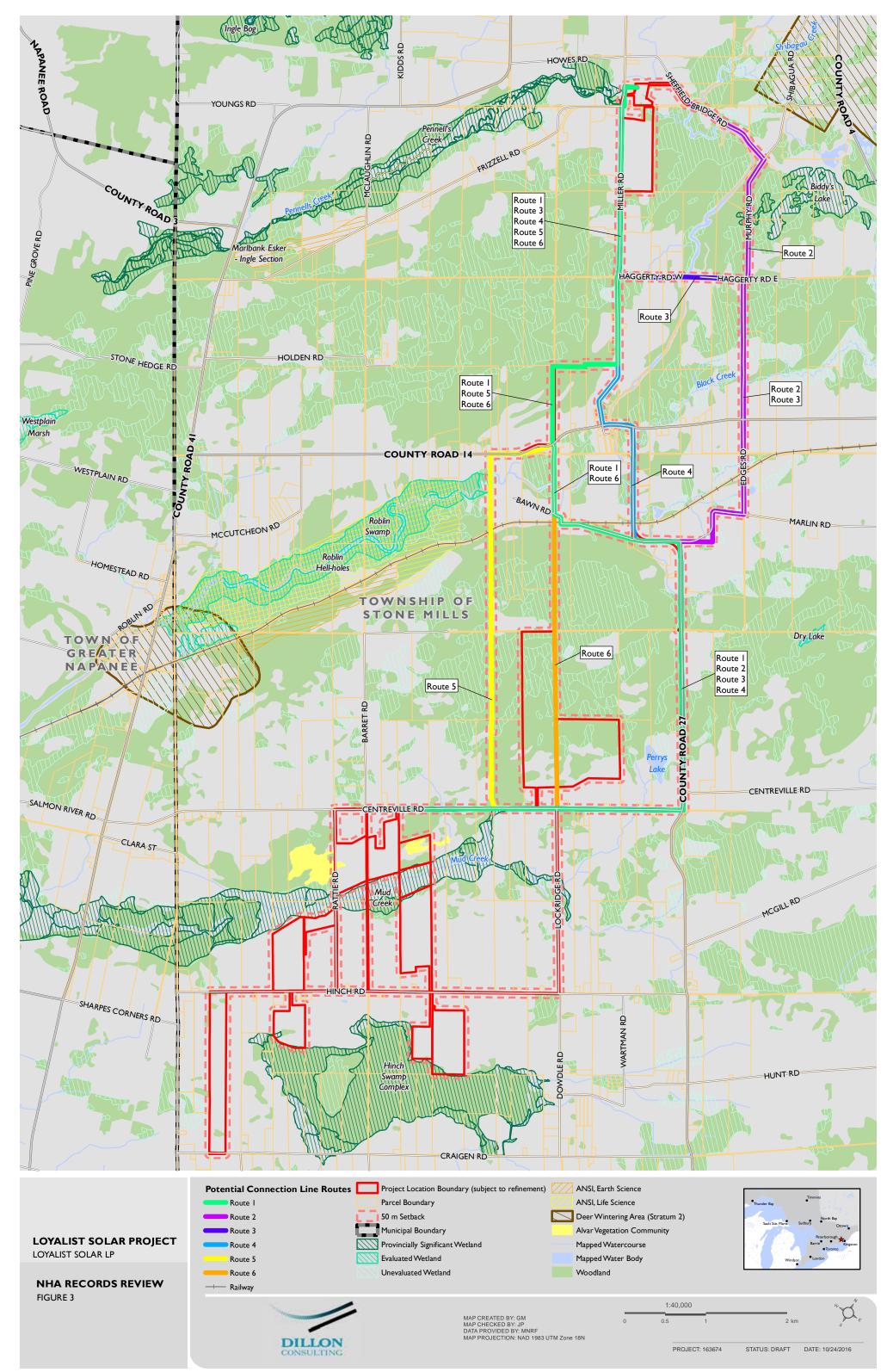
Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Deer Yarding Areas				
There are no Deer Yardi adjacent lands within 50		y the MNRF) within	the Project Location or	Ν
Deer Winter Congregati	on Areas			
No known features iden	tified within the Proje	ct Location or adjace	ent lands within 50 m.	Y
Rare Vegetation Comm	nunities			
Cliffs and Talus Slopes				
No known features iden	tified within the Proje	ct Location or adjace	ent lands within 50 m.	Y
Sand Barren				1
No known features iden	tified within the Proje	ct Location or adjace	ent lands within 50 m.	Y
Alvar				'
Candidate Alvars	MNRF 2006	Unevaluated	Two within the Project Location and within 50 m of the Project Location.	Y
Old Growth Forest			1	1
No known features iden	Y			
Savannah				'
No known features iden	Y			
Tallgrass Prairie				
No known features iden	tified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Other Rare Vegetation	Communities			
No known features iden	tified within the Projec	ct Location or adjace	ent lands within 50 m.	Y
Specialised Wildlife Ha	bitat			
Waterfowl Nesting Area	9			
No known features iden	Y			
Bald Eagle and Osprey	Nesting, Foraging and	Perching Habitat		'
No known features iden	tified within the Proje	ct Location or adjace	ent lands within 50 m.	Y
Woodland Raptor Nesti	ng Habitat			
No known features iden	tified within the Proje	ct Location or adjace	ent lands within 50 m.	Y
Turtle Nesting Areas				
No known features iden	tified within the Proied	ct Location or adiace	ent lands within 50 m.	Y





Natural Feature ID	Source of Information	Evaluation Status	Distance Relative to Project Location	Carried Forward to Site Investigation? Yes ("Y") or No ("N")
Seeps and Springs			1	
No known features ident	ified within the Proje	ct Location or adjac	ent lands within 50 m.	Y
Amphibian Breeding Hal	bitat (Woodland)			
No known features ident	ified within the Proje	ct Location or adjac	ent lands within 50 m.	Y
Amphibian Breeding Hal	bitat (Wetlands)			- -
No known features ident	ified within the Proje	ct Location or adjac	ent lands within 50 m.	Y
Woodland Area- Sensitiv	ve Bird Breeding Habi	itat		
No known features ident	ified within the Proje	ct Location or adjac	ent lands within 50 m.	Y
Habitat of Species of Co	onservation Concern	,		
Marsh Bird Breeding Hal	bitat			
No known features ident	Y			
Open Country Breeding	Bird Habitat			
No known features ident	ified within the Proje	ct Location or adjac	ent lands within 50 m.	Y
Shrub/ Early Successiona	al Bird Breeding Habi	tat		
No known features ident	ified within the Proje	ct Location or adjac	ent lands within 50 m.	Y
Terrestrial Crayfish				
No known features ident	Y			
Special Concern and Rar	e Wildlife Species			
No known features ident Species with the potentia	Y			
Animal Movement Cori	ridors			
Amphibian Movement C	Corridors			
No known features ident	Y			
Deer Movement Corrido	ors			
No known features ident	ified within the Proje	ct Location or adjac	ent lands within 50 m.	Y
Provincial Plan Areas				
None applicable to the P	roject Location or set	back areas.		N





5.0 Site Investigation Purpose

This site investigation was completed to analyze the accuracy of the determinations made in the records review. It is consistent with Section 26 of *Ontario Regulation 359/09*, which states that a person who proposes to engage in a [solar] renewable energy Project shall ensure that a physical investigation of the air, land and water within 50 m of the Project Location is conducted for the purpose of determining:

- Whether the results of the analysis summarized in the report prepared under subsection 25 (3) [*NHA Records Review Report*] are correct or require correction, and identifying any required corrections.
- Whether any additional natural features exist, other than those that were identified in the report prepared under subsection 25 (3) [*NHA Records Review Report*].
- The boundaries, located within 50 m of the Project Location, of any natural feature that was identified in the records review or the site investigation.
- The distance from the Project Location to the boundaries [of the natural feature].

Species at Risk listed under the federal *Species at Risk Act* and provincial *Endangered Species Act, 2007*, with the potential to interact with the Project Location and/or adjacent lands, are being considered in consultation with the appropriate regulatory agency. Reporting related to the protection of Species at Risk is being provided to the appropriate agency under separate cover.



6.0 Site Investigation Methodology

Based on analysis of the resources and records searched in the *NHA Records Review Report*, the determinations made with respect to natural features were the subject of multiple site investigations of the Project Location. These site investigations were also conducted to identify natural features not identified during the records review. Site investigations focused on those areas within the Project Location and surrounding 50 m.

Table 3 outlines the method and/or procedure followed in order to determine the presence, absence and/or extent of a natural feature in the Project Location or 50 m setback. An outline of these methods is provided in greater detail in **Sections 6.1** to **6.4**.

	Source of Information/Data									
Feature	Consultation/ Records Review	Ecological Land Classification	Wetland Delineation	Wildlife Habitat Mapping	Incidental Vegetation/ Wildlife Survey					
Wetlands	✓	✓	✓	\checkmark						
Woodlands	~	✓		\checkmark						
Wildlife Habitat	~	✓	\checkmark	\checkmark	\checkmark					

Table 3: Overview of Methods Employed During the Site Investigation of Natural Features

6.1 Ecological Land Classification

During field investigations, vegetation was characterized using the Ecological Land Classification System ("ELC") for Southern Ontario (Lee et al. 1998). Where present, vegetation community boundaries were determined through the review of aerial photography, and then further refined through on-site field studies. Field studies involved identifying the dominant species for each vegetation cover type based on visual estimates of species abundances. The ELC system methodology recommends that a vegetation community be a minimum of 0.5 hectares in size before it is defined. For the purposes *NHA Site Investigation Report*, ELC was completed to Vegetation Type.

Vegetation communities have been mapped on aerial photography according to ELC nomenclature to graphically represent the specific spatial pattern in the vegetation cover according to species composition, physiognomy, and physical site characteristics. ELC communities have been reported in Second Approximation following guidance received from the MNRF as well as in First Approximation to allow for cross-referencing with the MNRF's Ecoregion 6E Criteria Schedule (MNRF 2015). ELC information was also used to identify treed communities. Areas of anthropogenic uses such as agriculture and urban land uses were also mapped to provide a complete account of existing conditions within the Project Location. Where site access was restricted, classification of vegetation communities was completed to the Ecosite level, using air photo interpretation and visual assessment using binoculars where possible.



Soil profiles for ELC involved the examination of hand auger soil profiles. This allowed for the description of soil texture and site moisture characteristics which influence plant distributions and the resulting vegetation communities. Other physical traits such as topography and slope aspect were also noted within each community.

In addition to the ELC classification, a late season vegetation survey of alvar communities was conducted in September and October of 2016 (**Table 5**). This survey was necessary in order to accurately delineate the boundaries of alvar communities based on fall flowering alvar indicator species as well as account for the native and non-native species composition and level of anthropogenic disturbance after the growing the season.

6.2 Wetland Boundary Delineation

Wetlands found within the Project Location and surrounding 50 m are required to be surveyed using protocols outlined in the Ontario Wetland Evaluation System ("OWES") Southern Manual (MNRF 2014) and are to be carried out by a MNRF certified evaluator. Wetlands within the 50 m setback area may be assumed provincially significant and assessed using Appendix C of the Natural Heritage Assessment Guide for Renewable Energy Projects (MNRF 2012). Applicable wetland boundaries within 50 m of the Project Location, or in close proximity to this setback, were delineated on accessible lands using the tracking function of a GPS unit. The wetland boundaries were delineated by following wetland indicator species and determining where vegetation consisted of 50 percent wetland species and 50 percent upland species in accordance with the Ontario Wetland Evaluation System Southern Manual (MNRF 2014). Wetlands were then classified according to the dominant vegetation form and substrate characteristics (i.e. organic/mineral).

6.3 Woodland Boundary Delineation

As detailed in the *NHA Records Review Report*, a search and analysis of the records and resources identified both unevaluated and evaluated woodlands in and within 50 m of the Project Location. The focus of the woodlands site investigation was to document the boundaries of woodland features identified during the records review and to determine if additional woodland features were present.

The woodland boundary was delineated along the edge of the drip-line. Woodlands that were separated by more than 20 m are considered separate woodlands. Woodland interior was determined by applying a 100 m buffer from the woodland edge and calculating the area. Information about the attributes and composition of the woodlands was interpreted from data collected and recorded in the field during ELC assessment.



6.4 Wildlife Habitat Identification Survey

The potential presence of wildlife habitat in the Project Location and adjacent lands, applicable to Ecoregion 6E, was assessed using the criteria outlined in Sections 4 – 7 and Appendix M, N, and Q of the Significant Wildlife Habitat Technical Guide (MNRF 2000) and the associated Ecoregion Criteria Schedule (MNRF 2015). This included further characterization of the Project Location and lands within 50 m for the presence of necessary habitat structure (e.g., tree cavities, stick nests, etc.) as well as habitat of appropriate size, shape and structure (e.g. interior forest) required for candidate significant wildlife to occur; as well as further investigation of ELC communities correlating to wildlife habitat listed in the Significant Wildlife Habitat 6E Ecoregion Criterion Schedule (MNRF 2015) to determine any candidate significant wildlife habitat. Criteria pertaining to each individual habitat type which were used in identification of candidate significant wildlife habitat are provided in **Table 9** in **Section 7.2.4**.

6.4.1 Incidental Wildlife Surveys

Incidental observations of vegetation, birds, herpetozoa, mammal and invertebrate species were recorded during field studies to assist in the identification of wildlife habitat within the Project Location and 50 m setback.

6.5 Name and Qualifications of Site Investigators

The names and qualifications of all site investigators are outlined in **Table 4** below. All site investigators listed below have been involved with the Project since the initiation of this work and/or have been involved in numerous renewable energy Projects that have received approval under O. Reg. 359/09.

Table 4:	Names and	Qualifications of	Site	Investigators
----------	-----------	--------------------------	------	---------------

Name:	Dayna LeClair						
	 M.Sc. University of Guelph, 2012 						
Degrees and Professional	 B.Sc. (Hons), Trent University, 2010 						
Designations:	 Fish and Wildlife Technology Advanced Diploma, 2008 						
	 Fish and Wildlife Technician Diploma, 2007 						
Years of Experience:	6 years						
	• ELC						
Project Role:	 Wildlife and Wildlife Habitat Surveys 						
	 Incidental Wildlife Observations 						
Certifications:	Ecological Land Classification for Southern Ontario (2009)						

Name:	Jonathan Harris					
Degrees and Professional Designations:	 Fish and Wildlife Technician Diploma Fish and Wildlife Technology Advanced Diploma International Society of Arboriculture (ISA) Certified Arborist (member- Ontario Chapter) Affiliated with Ontario Field Ornithologists, Ontario Invasive Plant Council, Ontario Field Botanists, Toronto Field Naturalists, and Ontario Nature 					
Years of Experience:	9 years (over 30 renewable Projects)					
Project Role:	 ELC Wildlife and Wildlife Habitat Surveys Wetland Delineation Incidental Wildlife Observations 					
Certifications:	 Ecological Land Classification for Southern Ontario (2011) Ontario Wetland Evaluation System Certification (2012) MNRF Bat Maternity Colony Training (2012) Butternut Health Assessor Certification (2014) 					
Name:	Ryan Godfrey					
Degrees and Professional Designations:	 B.Sc. University of British Columbia, 2010 M.Sc. University of Toronto, 2014 Affiliated with Field Botanists of Ontario, North American Native Plant Society 					
Years of Experience:	2 years					
Project Role:	Vegetation Assessments					
Certifications:	n/a					
Name:	Kelly McLean					
Degrees and Professional Designations:	 M.Sc. Geography and Environmental Management B.Sc. Environmental Biology and Technology 					
Years of Experience:	4 years					
Project Role:	Wildlife Habitat Surveys					
Certifications:	 ROM Fish Identification certificate Class 1 Electrofishing certification					
Name:	Dale Kristenson					
Degrees and Professional Designations:	 M.Sc., Queen's University, 1996 B. Sc., University of Guelph, 1981 					
Years of Experience:	29 years					
Project Role:	Alvar Surveys					
Certifications:	Certified Butternut Health Advisor					

LOYALIST SOLAR LP Natural Heritage Assessment Site Investigation Report Loyalist Solar Project January 2017 – 16-3674



7.0 Site Investigation Results

In addition to assessing if the results of the *NHA Records Review Report* were correct or required amendments, information relating to each natural feature identified within the Project Location and surrounding 50 m was collected, including the type, attributes, composition and function of the features. Site investigation information presented in the sections below describes the presence, absence or non-detection of natural features, species and habitat identified during the records review as well as the potential for additional natural features. Field notes from the site investigation work are included in *Appendix A*.

7.1 Site Investigation Dates, Times, Duration, and Weather Conditions

As outlined in **Table 5**, site investigations of the Project Location were undertaken over a period of approximately 5.5 months. The details of each site investigation completed in accordance with REA Section 26(3) are provided in **Table 5** and should be read concurrently with **Table 4**.

				ours)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp.(°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
April 27	Bat Maternity Roost Survey; Incidental Observations; SWH^ characteristic observations	Jon Harris & Kelly McLean	16:00	4.0	12	0	3.2	21/39	0
May 11	Bat Maternity Roost Survey; Incidental Observations; SWH^ characteristic observations	Jonathan Harris & Dayna LeClair	12:00	3.0	18-22	1	10.3	NA/ <31	0
May 12	Bat Maternity Roost Survey; Incidental Observations; SWH^ characteristic observations	Jonathan Harris & Dayna LeClair	8:27	3.0	9-22	0	15.3	NA/ <31	0

Table 5: Site Investigation Dates, Times, Duration and Weather Conditions





				urs)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp.(°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
June 13	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	9:24	6.0	15	2-4	16.3	8-28/ 18-32	0
June 14	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	14:00	7.0	19	4	15	16-22/ 19-21	0
June 15	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	15:00	4.0	20	1-2	16.8	2-8/ 14-20	0
June 16	ELC; Wetland Delineation; Incidental Observations; SWH [^] characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	8:30	8.5	26	3-4	21.5	18-23/ 4-10	0
June 17	ELC; Wetland Delineation; Incidental Observations; SWH [^] characteristic observations	Jonathan Harris & Dayna LeClair	8:00	7.0	23	2-3	20	7-18/ 16-21	0
June 20	ELC; Incidental Observations; SWH^ characteristic observations		13:30	5.0	25	4	23.3	23-25/ 19	25.



				urs)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
Date (2016)	Survey Type	Site Investigator	Start Time	Duration (hours)	Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp.(°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
June 21	ELC; Wetland Delineation; Incidental Observations; SWH^ characteristic observations	Jonathan Harris, Ryan Godfrey & Dayna LeClair	9:00	7.5	22	3	17	18-22/ 25-27	2.2
June 22	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	7:47	7.0	19	3-4	17	14-23/ 28-32	0
June 23	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	10:00	5.5	18	3	16.8	10-18/ 17-23	0
June 24	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	9:14	6.5	20	2-3	17.8	7-17/ 16-19	0
June 27	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	10:00	6.5	21	3-4	24.8	17-21/ 18-19	0
June 28	ELC; Incidental Observations; SWH^ characteristic observations	Ryan Godfrey & Dayna LeClair	9:30	6.0	23	3-4	21.8	10-23/ 19-35	6.6
June 29	ELC; Incidental Observations; SWH [^] characteristic observations	Ryan Godfrey & Dayna LeClair	16:30	3.5	22	3	20.3	8-12/ 24-31	2





			ours)	Weather Conditions (Field Observations)		Weather Conditions (EC* Station)		
Survey Type	Site Investigator	Start Time	Duration (ho	Air Temp. (°C)	Wind (Beaufort Scale)	Average Air Temp.(°C)	Wind (Speed (km/h) /Direction(bearing))	Precipitation (mm)
ELC – Alvars; Incidental Observations; SWH^ characteristic observations	Dayna LeClair & Ryan Godfrey	10:30	6.0	15	3	14.8	37/4	0.0
ELC – Alvars; Incidental Observations; SWH^ characteristic observations	Dayna LeClair & Ryan Godfrey	7:30	6.0	12	2	14.3	<31/NA	0.0
ELC – Alvars; Incidental Observations; SWH^ characteristic observations	Jon Harris, Dayna LeClair, Ryan Godfrey, Dale Kristenson	10:30	5.0	10	1	13.8	<31/NA	0.0
	Type ELC – Alvars; Incidental Observations; SWH^ characteristic observations; ELC – Alvars; Incidental Observations; SWH^ characteristic observations; ELC – Alvars; Incidental Observations; SWH^ characteristic	TypeInvestigatorELC – Alvars; Incidental Observations; SWH^ characteristic observationsDayna LeClair & Ryan GodfreyELC – Alvars; Incidental Observations; SWH^ characteristic observationsDayna LeClair & Ryan GodfreyELC – Alvars; Incidental Observations; SWH^ characteristic observationsDayna LeClair & Ryan GodfreyELC – Alvars; Incidental Observations; SWH^ characteristic SWH^ characteristic SWH^ characteristicDayna LeClair & Ryan GodfreyELC – Alvars; Incidental Observations; SWH^ characteristicJon Harris, Dayna LeClair, Ryan Godfrey, Dale Kristenson	TypeInvestigatorTimeELC – Alvars; Incidental Observations; SWH^ characteristic observationsDayna LeClair & Ryan Godfrey10:30ELC – Alvars; Incidental Observations; SWH^ characteristic observations;Dayna LeClair & Ryan Godfrey10:30ELC – Alvars; Incidental Observations; SWH^ characteristic observationsDayna LeClair & Ryan Godfrey7:30ELC – Alvars; Incidental Observations; SWH^ characteristic observations;Jon Harris, Dayna LeClair, Ryan Godfrey, Dale Kristenson10:30	TypeInvestigatorTimeOperationELC – Alvars; Incidental Observations; SWH^ characteristic observationsDayna LeClair & Ryan Godfrey10:306.0ELC – Alvars; Incidental ObservationsDayna LeClair & Ryan Godfrey10:306.0ELC – Alvars; Incidental Observations; SWH^ characteristic observationsDayna LeClair & Ryan Godfrey7:306.0ELC – Alvars; Incidental Observations; SWH^ characteristic observations;Jon Harris, Dayna LeClair, Ryan Godfrey, Dale Kristenson10:305.0	Survey TypeSite InvestigatorStart TimeInvestigatorStart InvestigatorInvestigatorELC - Alvars; Incidental Observations;Dayna LeClair & Ryan Godfrey10:306.015ELC - Alvars; Incidental Observations;Dayna LeClair & Ryan Godfrey10:306.015ELC - Alvars; Incidental Observations;Dayna LeClair & Ryan Godfrey7:306.012ELC - Alvars; Incidental Observations;Dayna LeClair & Ryan Godfrey7:306.012ELC - Alvars; Incidental Observations;Dayna LeClair & Ryan Godfrey7:306.012ELC - Alvars; Incidental Observations;Jon Harris, Dayna LeClair, Ryan Godfrey, Dale Kristenson5.010	Survey TypeSite InvestigatorStart TimeImage: Site Start TimeStart Start TimeImage: Site Start	Survey TypeSite InvestigatorStart TimeImage: Start Start TimeImage: Start<	Survey TypeSite InvestigatorStart Start TimeConditions (Field Observations)Weather Conditions (Field Observations)Weather Conditions (Field Observations)ELC – Alvars; Incidental ObservationsDayna LeClair & Ryan Godfrey10:306.015314.837/4ELC – Alvars; Incidental ObservationsDayna LeClair & Ryan Godfrey10:306.012214.337/4ELC – Alvars; Incidental Observations;Dayna LeClair & Ryan Godfrey7:306.012214.3<31/NA

*Closest Environment Canada (EC) Weather Station is in Kingston, Ontario. All EC Data refers to daily values; NA indicates the information was not available from an Environment Canada weather station from the date/time of field work. ^ Significant Wildlife Habitat (SWH) Characteristics as identified in the SWH Criteria Schedules for EcoRegion 6E (January 2015).





7.1.1 Alternative Site Investigations

As outlined in *Ontario Regulation 359/09*, all lands within 50 m of the Project Location must be assessed for natural features and resources. Access was not granted by nine of the landowners to some lands located within 50 m of the Project Location boundary; all landowners participating in the Project granted access to facilitate field investigations (*Appendix D; Figure D1*). Where access was not granted, or there was a concern related to health and safety that prevented accessing the natural feature, vegetation community boundaries were determined through the review of aerial photography/satellite imagery. Natural features located on adjacent lands where access was not available were assessed from safe vantage points, property lines and road rights-of-way, where applicable. Alternative Site Investigations mirrored survey dates for ELC as indicated in **Table 5**. This alternative site investigation was conducted in accordance with *Ontario Regulation 359/09*.

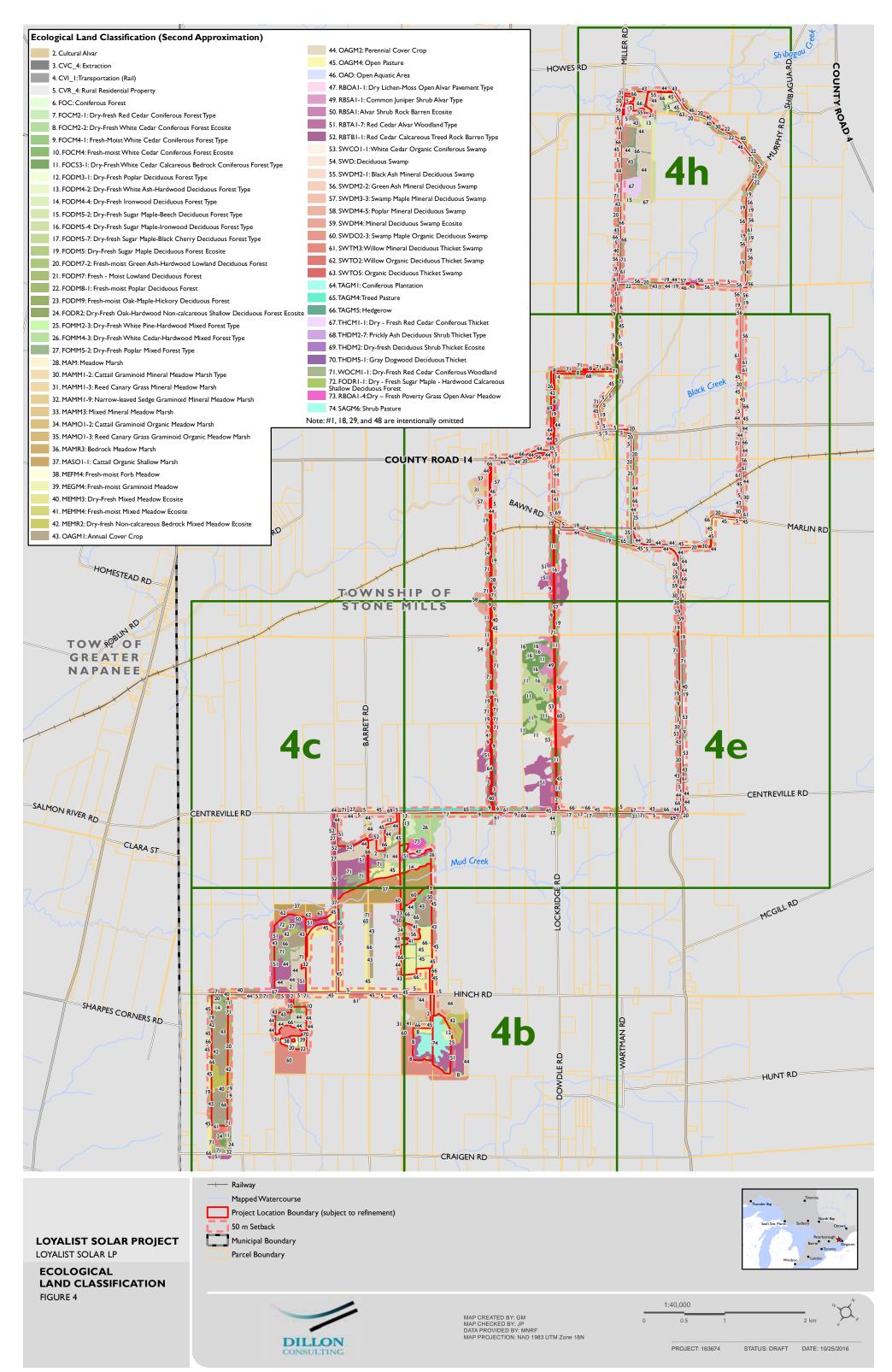
7.2 Natural Features

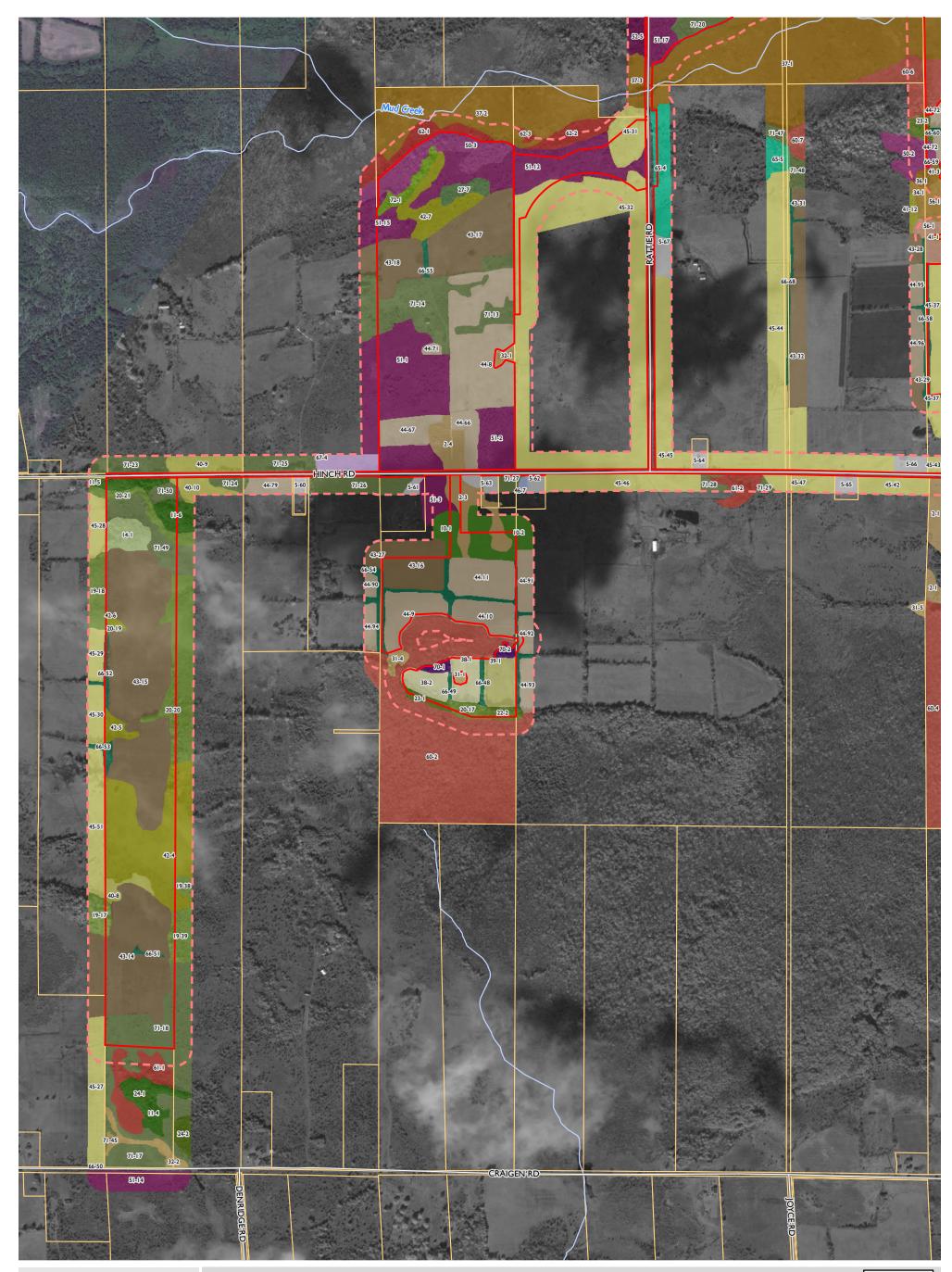
Based on the site investigation results, the presence of natural features is documented below. **Figure 4** displays the results of the ELC survey on and within 50 m of the Project Location and is the basis for determining the type of natural feature present and its boundaries. Field notes are attached in *Appendix A*.

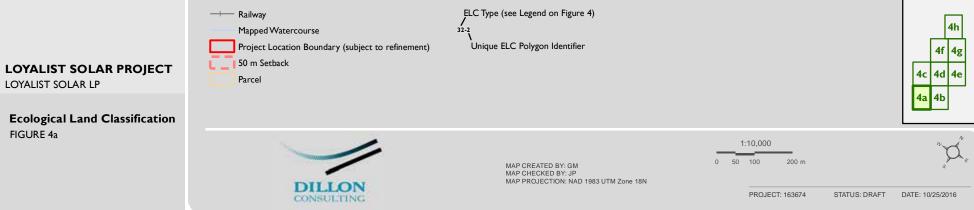
7.2.1 Ecological Land Classification Results

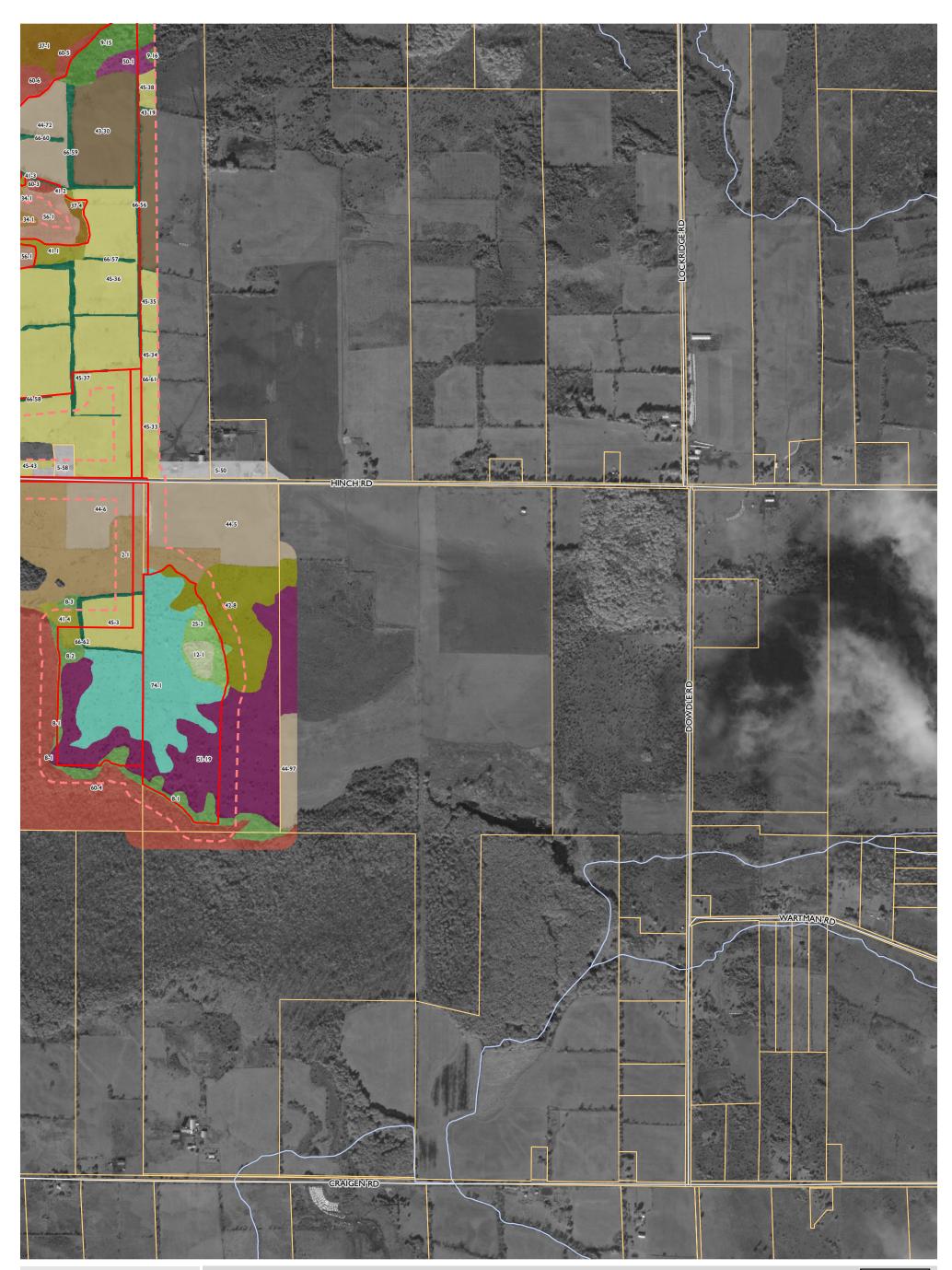
A total of 70 natural and anthropogenic vegetation communities were observed within 50 m of the Project Location. The location, type and boundaries of the various vegetation communities located within the Project Location and surrounding 50 m are delineated in **Figure 4**. Where access was permitted and/or vegetation communities were able to be identified from aerial imagery, the extent of the vegetation community has been mapped beyond 50 m from the Project Location to inform mitigation measures that may form part of other reporting requirements (such as the *Construction Plan Report*). **Table 6** outlines the communities documented during the 2016 ELC surveys. The results of this work were used to further confirm the extent of natural features within the Project Location and surrounding 50 m.

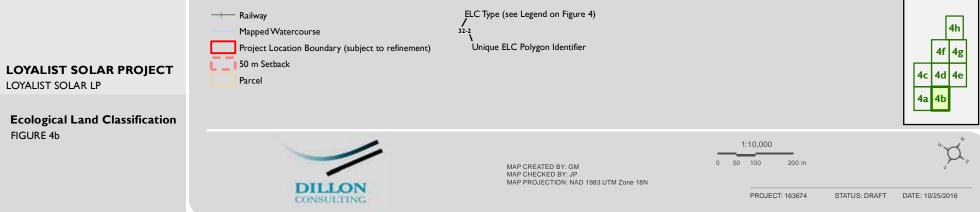






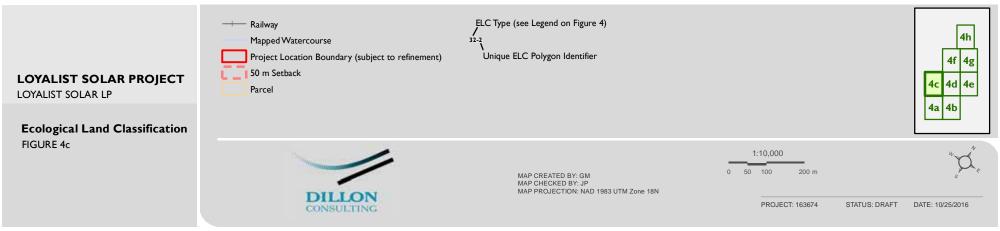




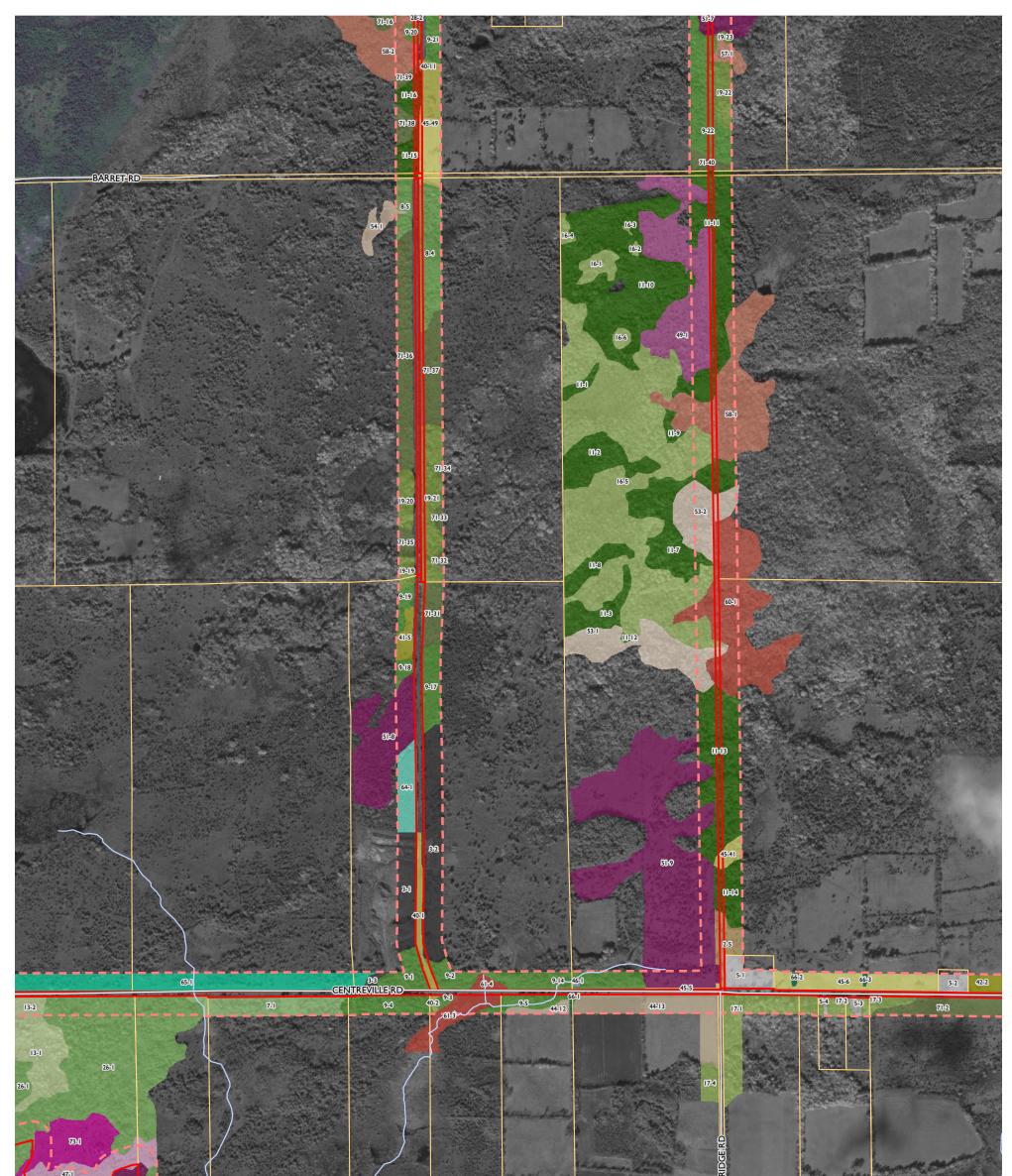


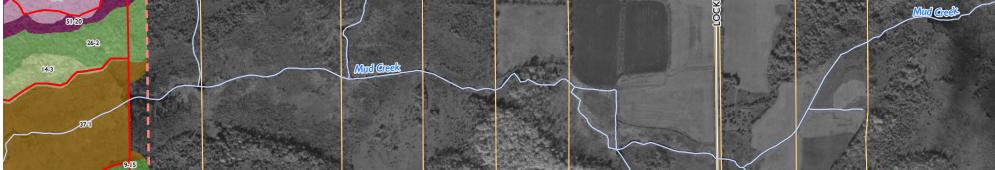


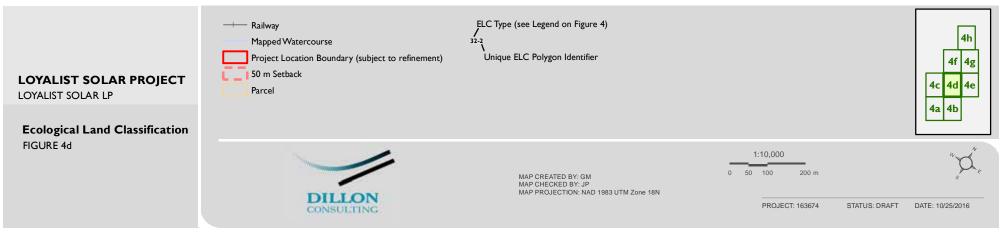


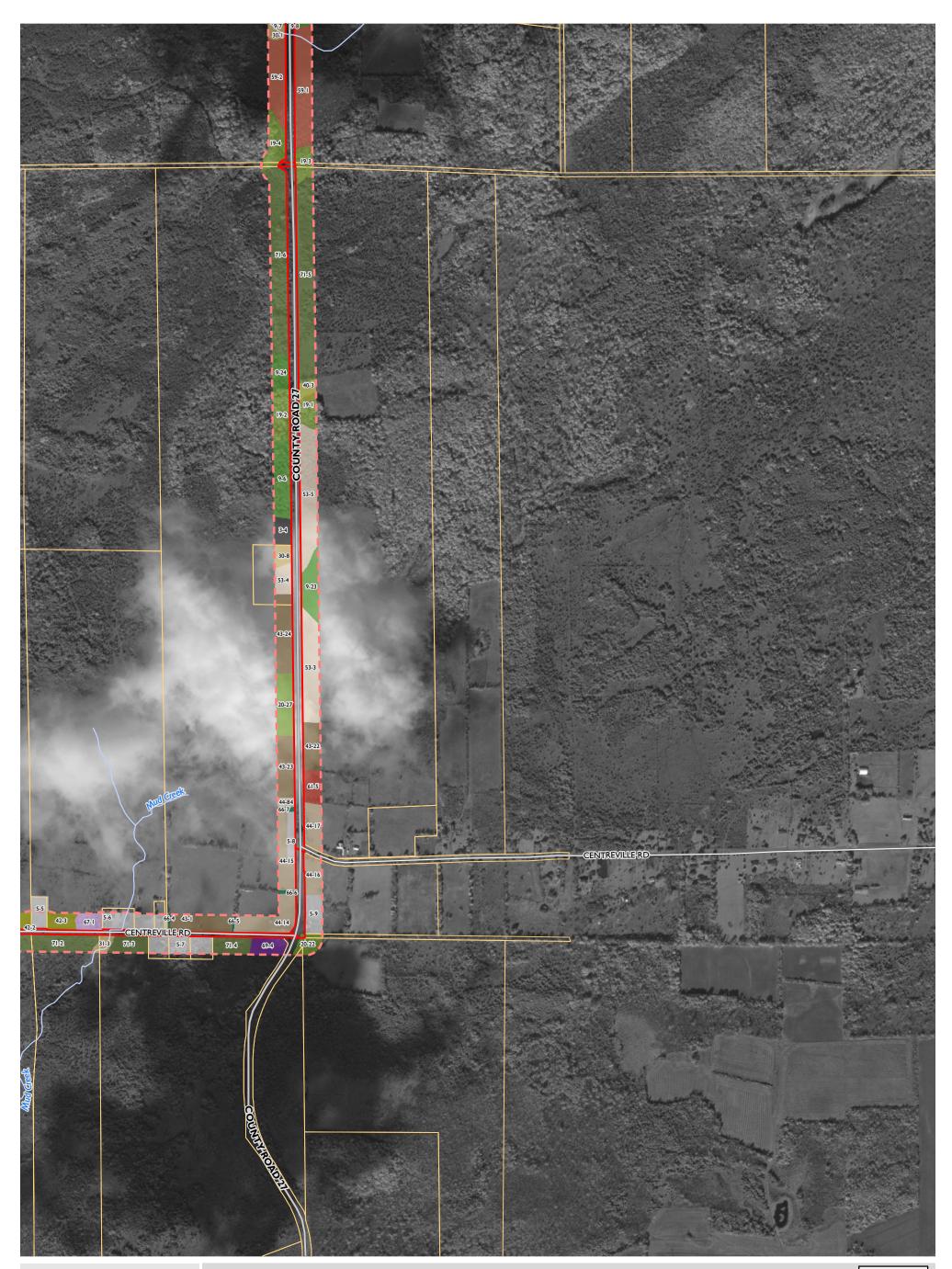


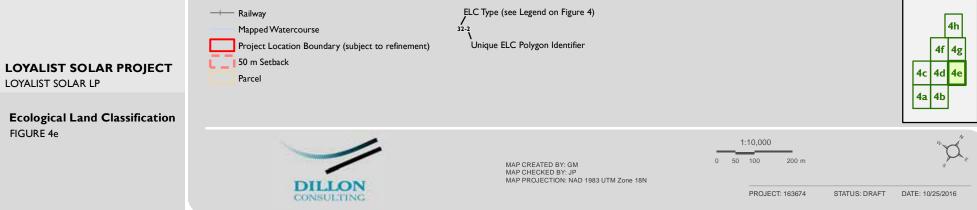
FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 4 Ecological Land Classification.mxd

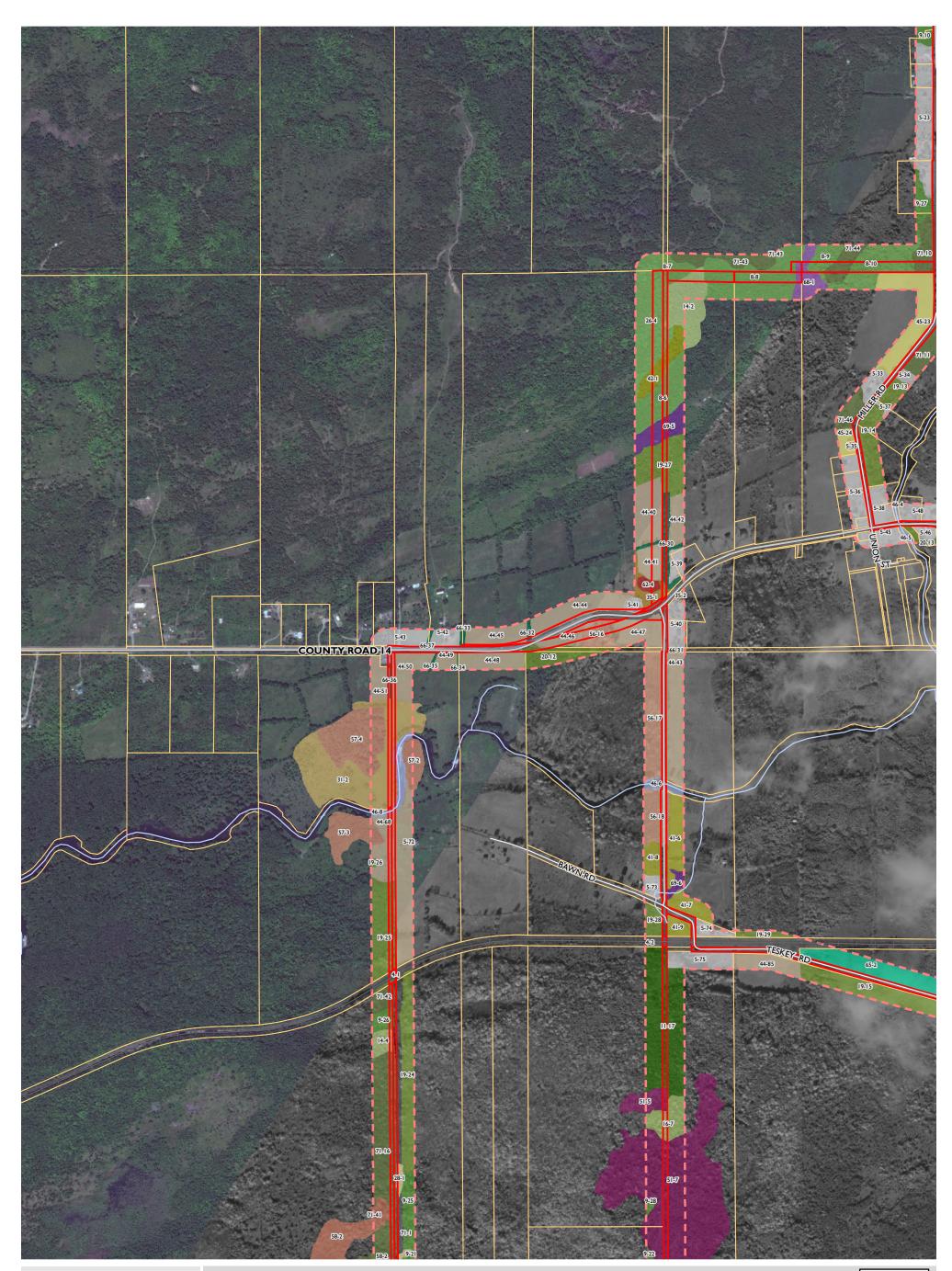


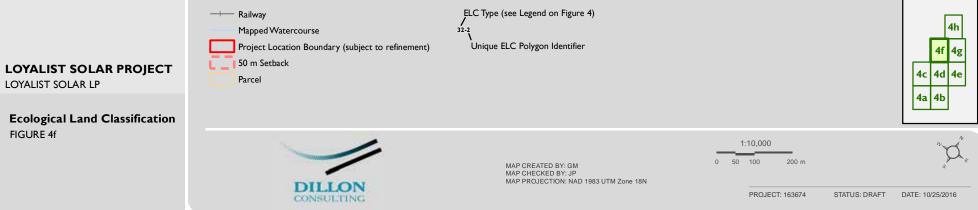


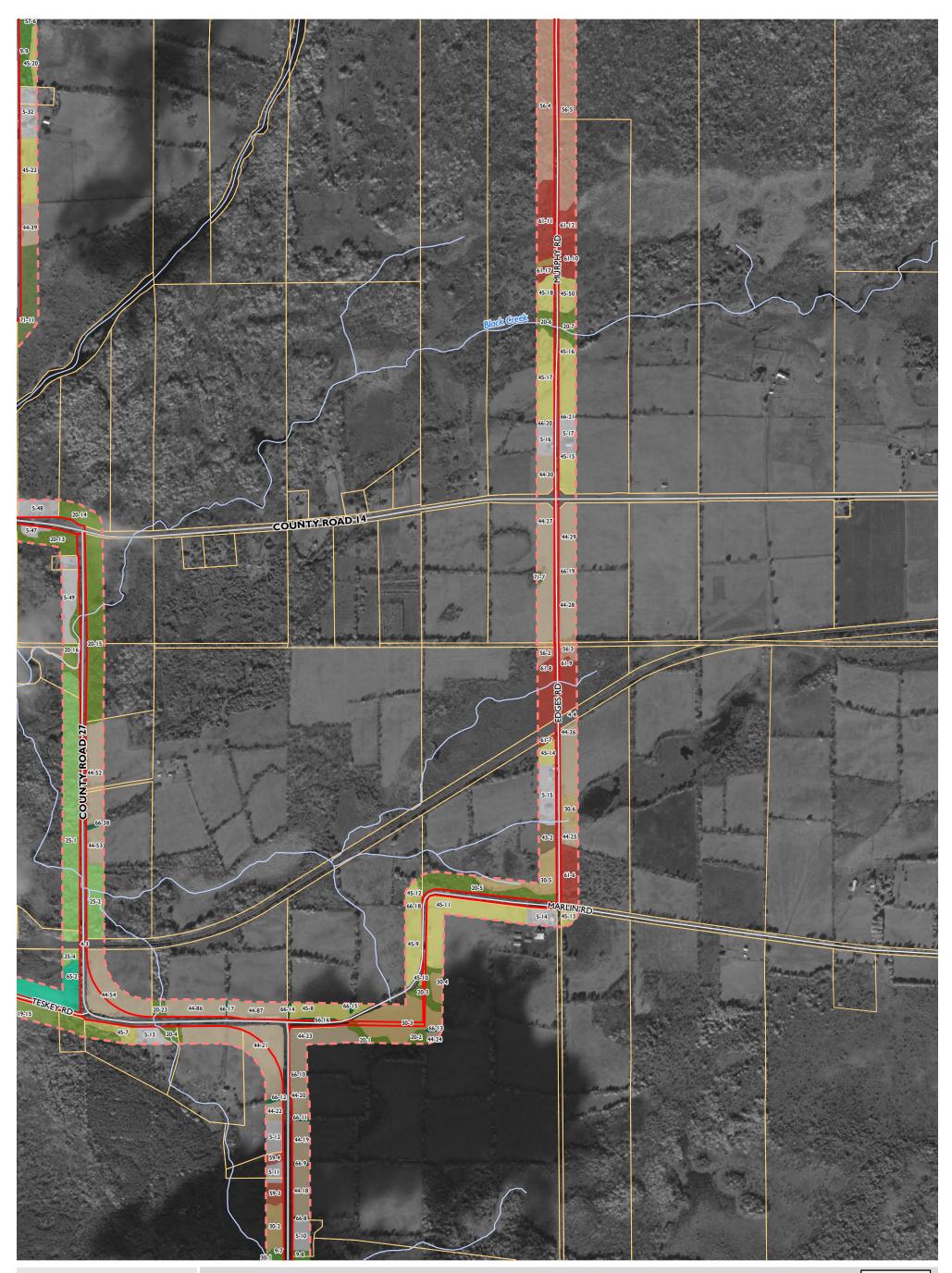


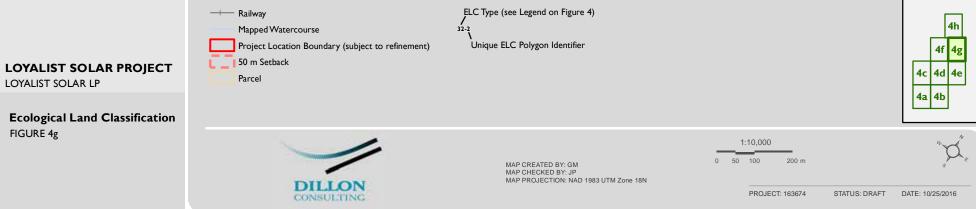


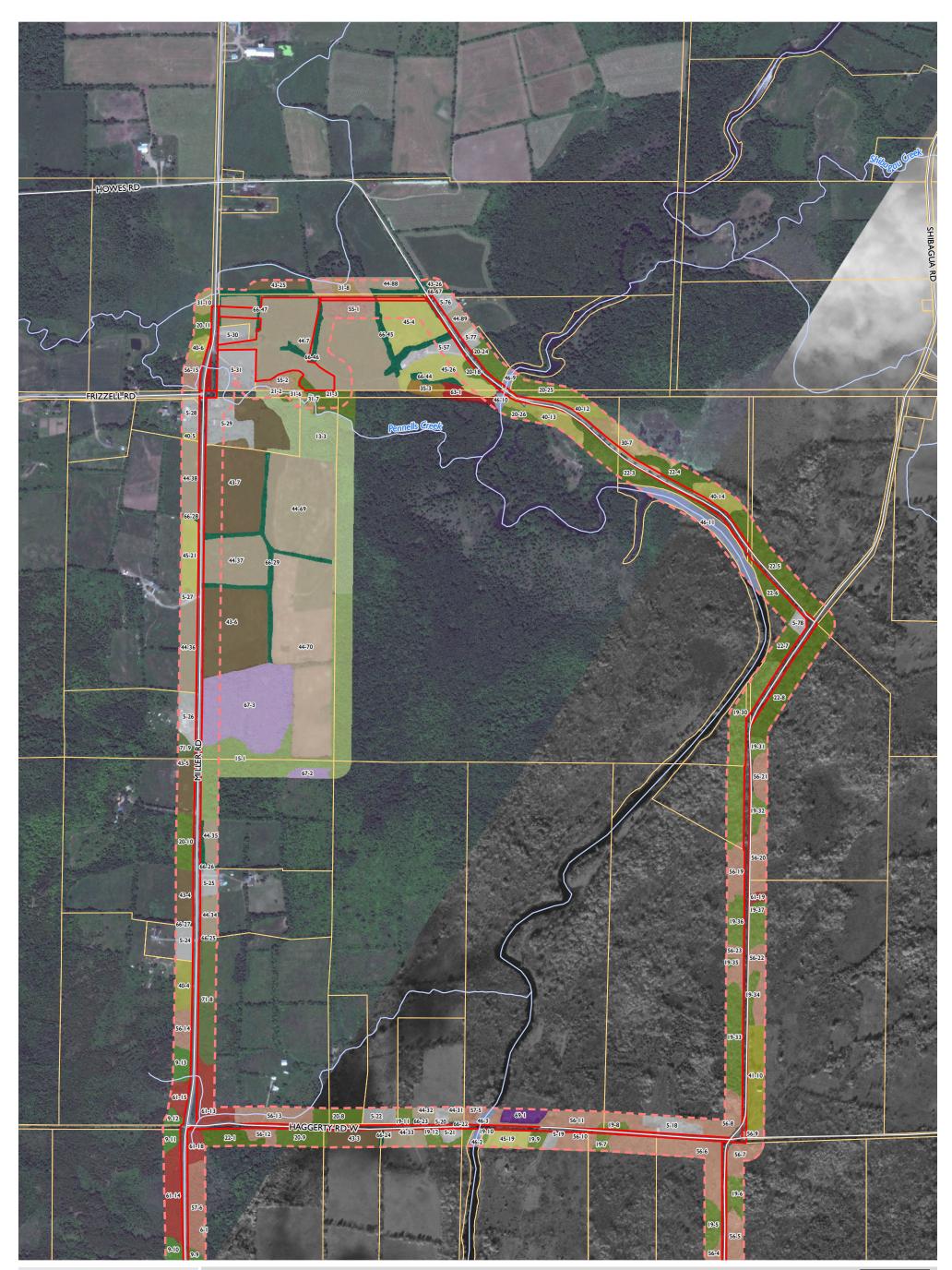


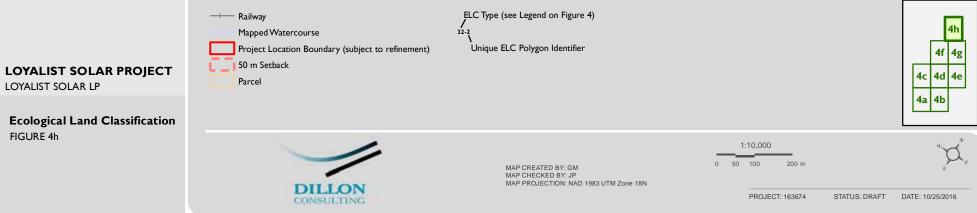












First Approximation		Second Approximation		Calle*	Identifier on	
ELC Code	Classification	ELC Code	Classification	Soils*	Figure 4^	Vegetation~
N/A	N/A	N/A	Cultural Alvar	Silty Loam; Moisture = 0	2	Vegetation associated with this cultural community is similar to that listed for Red Cedar Alv strongly dominated by non-native species, grazed vegetation, significant rutting and hummo (<i>Panicum</i> philadelphicum), False pennyroyal (<i>Trichostema</i> brachiatum), Flat-stemmed Spiker (photo not available).
N/A	N/A	CVC_4	Extraction	N/A	3	Active quarry and cleared land as part of aggregate extraction observed within the Project L
N/A	N/A	CVI_1	Transportation (Rail)	N/A	4	This cultural community consists of the right-of-way associated with the Canadian Pacific Ra with community is primarily meadow species reported later in this table (photo not available
N/A	N/A	CVR_4	Rural Residential Property	N/A	5	Vegetation associated with this cultural community is generally comprised of mown cool sea
N/A	N/A	FOC	Coniferous Forest	N/A	6	In 50 m setback south of NAP161 but not visible from road. Interpreted from aerial imagery. See Photo 1 in <i>Appendix B.</i>
FOC2-1	Dry-fresh Red Cedar Coniferous Forest Type	FOCM2-1	Dry-fresh Red Cedar Coniferous Forest Type	N/A	7	In 50 m setback of Centreville Road, west of route 5. Dominated by mature Red Cedar at a d See Photo 2 in Appendix B.
FOC2-2	Dry – Fresh White Cedar Coniferous Forest Type	FOCM2-2	Dry – Fresh White Cedar Coniferous Forest Type	Silty Loam; Moisture = 0	8	This coniferous forest community is dominated by Eastern White Cedar, with occasional occ glauca) and rare occurrences of American Elm (Ulmus americana), Bur Oak (Quercus macroc The shrub layer is dominated by Common Buckthorn (Rhamnus cathartica) and Northern Pri Eastern White Cedar. Rare occurrences of American Elm, Russian Olive (Elaeagnus angustifo Herbaceous species present include Poison Ivy (Toxicodendron rydbergii), Virginia Creeper (F Gooseberry (Ribes cynosbati) with rare occurrences of False Soloman's Seal (Maianthemum (Geranium robertianum) and Philadelphia Fleabane (Erigeron philadelphicus). See Photo 3 in Appendix B.
FOC4-1	Fresh – Moist White Cedar Coniferous Forest Type	FOCM4-1	Fresh – Moist White Cedar Coniferous Forest Type	N/A	9	This coniferous forest community is dominated by Eastern White Cedar with rare occurrence saccharum). The shrub layer is dominated by Common Buckthorn and Northern Prickly Ash. Rare occurre Elderberry (Sambucus canadensis) are also present, among others. Herbaceous species present include Poison Ivy, Herb-robert, Wood Fern species, European S (Sanguinaria canadensis), White Trillium (Trillium grandiflorum), Goldthread (Coptis trifolia), See Photo 4 in Appendix B .
FOC4	Fresh – Moist White Cedar Coniferous Forest Ecosite	FOCM4	Fresh – Moist White Cedar Coniferous Forest Ecosite	Silty Clay; Moisture = 4	10	This coniferous forest community is dominated by Eastern White Cedar with Eastern Red Ce The shrub layer consists of Ground Juniper (<i>Juniperus communis</i>) and Gray Dogwood (<i>Cornu</i> Herbaceous species present include Garden Bird's-foot Trefoil (<i>Lotus corniculatus</i>), Red Clov species (<i>Carex</i> sp.), Tall Yellow Hawkweed (<i>Hieracium praealtum</i>), Orange Hawkweed (<i>Hiera</i> See Photo 5 in <i>Appendix B</i> .

Alvar Woodland Type but is severely degradated by cattle. Vegetation is nocks, however a few alvar indicators were evident; Philadelphia panicgrass serush (*Eleocharis compressa*) and Prairie Smoke (*Geum triflorum*).

Location (photo not available)

Railway line running between Toronto and Montreal. Vegetation associated ble).

eason turf grasses and ornamental garden species (photo not available).

ry. Appears to be dominated by Eastern White Cedar (Thuja occidentalis).

density of >60% coverage.

ccurrences of White Ash (*Fraxinus americana*) and White Spruce (*Picea ocarpa*) and Trembling Aspen (*Populus tremuloides*).

Prickly Ash (*Zanthoxylum americanum*) with occasional occurrences of *ifolia*) and Bur Oak are also present, among others.

(*Parthenocissus quinquefolia*), Wood Fern species ("sp."), Grass sp., Prickly *m racemosum*), Oxeye Daisy (*Leucanthemum vulgare*), Herb-robert

nces of Paper Birch (Betula papyrifera), American Elm and Sugar Maple (Acer

rences of Ironwood (Ostrya virginiana), Prickly Gooseberry and Common

n Swallow-wort (*Cynanchum rossicum*), Virginia Creeper, Bloodroot *a*), and Common Burdock (*Arctium minus*).

Cedar (Juniperus virginiana) associates.

nus racemosa).

over (*Trifolium pratense*), Wild Carrot (*Daucus carota*), Aster species, Sedge *racium aurantiacum*), Poison Ivy, and Oxeye Daisy.



First A	Approximation	Second	Approximation	- Coll-*	Identifier on	
ELC Code	Classification	ELC Code	Classification	Soils*	Figure 4^	Vegetation~
FOC2-2	Dry – Fresh White Cedar Coniferous Forest Type	FOCS3-1	Dry – Fresh White Cedar Calcareous Bedrock Coniferous Forest Type	Sandy Clay Moisture = 0	11	This coniferous forest community is dominated by Eastern White Cedar, with rare occurrence The shrub layer is dominated by Northern Prickly Ash. Occasional occurrences of Eastern Her present, along with rare occurrences of Wild Black Currant (<i>Ribes americanum</i>) and Common Herbaceous species present include Herb-robert, Violet sp. (<i>Viola</i> sp.), Virginia Creeper, and Soloman's Seal, Poison Ivy, Eastern Helleborine (<i>Epipactis helleborine</i>), Rattlesnake Fern (<i>Bot</i> var. <i>lanceolatus</i>) and Wood sorrel species (Oxalis sp.) See Photo 6 in <i>Appendix B</i> .
FOD3-1	Dry – Fresh Poplar Deciduous Forest Type	FODM3-1	Dry – Fresh Poplar Deciduous Forest Type	Sandy Clay Loam; Moisture = 0	12	This deciduous forest community is dominated by Trembling Aspen with White Ash associate present, among others. The shrub layer is dominated by Common Buckthorn and Northern Prickly Ash, with occasion Herbaceous species present include Grass sp., Aster sp., Woodland Strawberry (<i>Fragaria ves</i> See Photo 7 in <i>Appendix B</i> .
N/A	N/A	FODM4-2	Dry – Fresh White Ash – Hardwood Deciduous Forest Type	Silty Clay; Moisture = Dry	13	This deciduous forest community is dominated by White Ash with occasional occurrences of occurrences of Basswood. The shrub layer is dominated by Gray Dogwood, White Ash and Common Buckthorn with occ (<i>Cornus alternifolia</i>), and Manitoba Maple (<i>Acer negundo</i>). Herbaceous species present include Virginia Waterleaf (<i>Hydrophyllum virginianum</i>), Virginia <i>flexicaulis</i>), Rough Galium (<i>Galium asprellum</i>), Aster sp. and Sedge sp.
N/A	N/A	FODM4-4	Dry-Fresh Ironwood Deciduous Forest Type	Clay; Moisture = 0	14	This deciduous community is dominated by Ironwood, with occasional occurrences of Green Elm, Sugar Maple and White Ash. The shrub layer consists of Wild Black Currant and Common Buckthorn. Herbaceous species present include Herb Robert, Yellow Avens (<i>Geum aleppicum</i>), Common Agrimony sp. See Photo 8 in <i>Appendix B</i> .
FOD5-2	Dry – Fresh Sugar Maple – Beech Deciduous Forest Type	FODM5-2	Dry – Fresh Sugar Maple – Beech Deciduous Forest Type	Medium Sandy Clay Loam; Moisture = Dry	15	This deciduous forest community is dominated by Sugar Maple and Black Maple (Acer nigrun occasional occurrence of Ironwood, Basswood, and Blue-beech (Carpinus caroliniana). The shrub layer is dominated by Northern Prickly Ash with abundant occurrences of Gray Do Herbaceous species present include Bloodroot, Herb-robert and White Baneberry (Actaea pa
FOD5-4	Dry – Fresh Sugar Maple – Ironwood Deciduous Forest Type	FODM5-4	Dry – Fresh Sugar Maple – Ironwood Deciduous Forest Type	Silty Loam; Moisture = 0	16	This deciduous forest community is dominated by Sugar Maple with abundant occurrences of Ash, and Bitternut Hickory (<i>Carya cordiformis</i>) are also present among others. Additionally, r Elm are present. The shrub layer consists of Common Buckthorn, Northern Prickly Ash and Ground Juniper. Herbaceous species present include Naked Bishop's-cap (<i>Mitella nuda</i>), Wild Sarsaparilla, Vir Sedge sp., and Blue-stemmed Goldenrod (<i>Solidago caesia</i>) (photo not available).
FOD5-7	Dry-fresh Sugar Maple-Black Cherry Deciduous Forest	FODM5-7	Dry-fresh Sugar Maple- Black Cherry Deciduous Forest	N/A	17	In 50 m setback from a collection line route off Lockbridge Road. Dense shrubs along the edg canopy appeared to be dominated by Sugar Maple and Black Cherry. See Photo 9 in Appendix B.

nces of Black Cherry (*Prunus serotina*), White Spruce and Sugar Maple. Hemlock (*Tsuga canadensis*), Ironwood, and Basswood (*Tilia americana*) are non Red Raspberry (*Rubus idaeus* spp. *idaeus*). Ind Wild Sarsaparilla (*Aralia nudicaulis*). Other species present include False Botrypus virginianus), Eastern Rose Twisted-stalk (*Streptopus lanceolatus*)

ates. Rare occurrences of Black Cherry, Basswood, and Bur Oak are also

ional occurrences of American Elm and Speckled Alder (*Alnus incana*). *esca*), Tall Yellow Hawkweed, and Poison Ivy.

of American Elm, Eastern White Cedar, Sugar Maple, along with rare

occasional occurrences of Northern Prickly Ash, Alternate-leaved Dogwood

ia Creeper, Common Burdock, Herb-robert, Zigzag Goldenrod (Solidago

en Ash (Fraxinus pennsylvanica), Shagbark Hickory (Carya ovata), American

on Burdock, Broad-leaved Enchanter's Nightshade (Circaea canadensis),

rum), with abundant occurrences of American Beech (Fagus grandifolia) and

Dogwood.

pachypoda) (photo not available).

s of Ironwood. Occasional occurrences of Red Oak (*Quercus rubra*), White r, rare occurrences of Black Ash, Eastern Hemlock, Basswood and American

Virginia Creeper, Round-lobed Hepatica (Anemone americana), Aster sp.,

edge of the community made it difficult to assess from the road. Community



First A	Approximation	Second	Approximation	Soils*	Identifier or	
ELC Code	Classification	ELC Code	Classification	50115*	Figure 4^	Vegetation~
FOD1	Dry – Fresh Oak Deciduous Forest Ecosite	FODM5	Dry – Fresh Sugar Maple Deciduous Forest Ecosite	Silty Clay Loam; Moisture = 2	19	This deciduous community is dominated by Sugar Maple with abundant occurrences of Whit The shrub layer consists of White Pine, Eastern White Cedar, American Elm and Eastern Hem The ground layer is heavily grazed with few species present; including Bloodroot, Grass sp., S See Photo 10 in <i>Appendix B</i> .
FOD7-2	Fresh – Moist Ash Lowland Deciduous Forest Type	FODM7-2	Fresh – Moist Green Ash- Hardwood Lowland Deciduous Forest Type	Clay; Moisture = 0	20	This deciduous forest community is dominated by Green Ash, with occasional occurrences of The shrub layer is dominated by Common Buckthorn, with occasional occurrences of Bur Oa Prickly Ash. Rare species include Alternate-leaved Dogwood and Manitoba Maple. Herbaceous species present include Virginia Creeper, Broad-leaved Enchanters Nightshade (<i>glomerata</i>), Yellow Avens, and Poison Ivy. See Photo 11 in <i>Appendix B</i> .
FOD7	Fresh – Moist Lowland Deciduous Forest Ecosite	FODM7	Fresh – Moist Lowland Deciduous Forest Ecosite	Sandy Loam; Moisture = 2	21	This deciduous forest community consists of Bitternut Hickory, Black Walnut and American B The shrub layer consists of predominantly vines Virginia Creeper and Wild Grape. Occasiona Gray Dogwood exist. Herbaceous species include Sensitive Fern, Zigzag Goldenrod, Carex sp., American Gooseber See Photo 12 in <i>Appendix B</i> .
FOD8-1	Fresh – Moist Poplar Deciduous Forest Type	FODM8-1	Fresh – Moist Poplar Deciduous Forest Type	Sandy Loam; Moisture = 2	22	This deciduous forest community is dominated by Trembling Aspen, with occasional occurre Cedar and White Spruce (<i>Picea glauca</i>). The shrub layer is dominated by Silky Dogwood (<i>Cornus obliqua</i>) and Northern Prickly Ash, w Herbaceous species present include Posion Ivy, Bluestem Goldenrod, Hemp Dogbane (<i>Apocy bufonius</i> var. <i>bufonius</i>), Tall Yellow Hawkweed, Woodland Strawberry and Riverbank Grape See Photo 13 in <i>Appendix B</i> .
FOD9	Fresh – Moist Oak – Maple – Hickory Deciduous Forest Ecosite	FODM9	Fresh – Moist Oak – Maple – Hickory Deciduous Forest Ecosite	Sandy Loam; Moisture = 3	23	This community was dominated by Large-tooth Aspen (<i>Populus grandidentata</i>) with occasio Basswood and Green Ash are also present. The shrub layer contains Northern Prickly Ash and Trillium sp. Herbaceous species present include Strict Blue-eyed Grass (<i>Sisyrinchium montanum var. mo</i> See Photo 14 in <i>Appendix B</i> .
FOD2	Dry – Fresh Oak – Maple – Hickory Deciduous Forest Ecosite	FODR2	Dry – Fresh Oak Hardwood Non- calcareous Shallow Deciduous Forest Ecosite	Silty fine sand; Moisture= 1	24	This deciduous forest community is an inclusion dominated by Bur Oak, with occasional occu The shrub layer consists of Common Buckthorn, Riverbank Grape and Purple-flowering Rasp Herbaceous species present consisted of Garden Birds-foot Trefoil, Viperine (<i>Echium plantag</i> (<i>Galium boreale</i>) and Oxeye Daisy. See Photo 15 in <i>Appendix B</i> .
N/A	N/A	FOMM2-3	Dry – Fresh White Pine Hardwood Mixed Forest Type	Silty Loam; Moisture = Dry	25	This mixed forest is dominated by White Pine with abundant occurrences White Ash. Occasion present. Rare occurrences of Black Cherry and Bur Oak. Shrub layer consists of Common Buckthorn, Northern Prickly Ash and Eastern White Cedar. Herbaceous species present include Grass sp., Aster sp., Wild Strawberry (<i>Fragaria virginian</i> Garden Bird's-foot Trefoil, Oxeye Daisy, Common Timothy (<i>Phleum pratense</i>), and Wild Carr See Photo 16 in <i>Appendix B</i> .

hite Pine and occasional White Ash associates. emlock.

., Sugar Maple and Hickory saplings.

of Bitternut Hickory, Shagbark Hickory, and White Ash. Dak, Eastern Red Cedar, Common Lilac (*Syringa vulgaris*) and Northern

e (Circaea canadensis), Wild Black Currant, Orchard Grass (Dactylis

n Elm with White Ash and Basswood associates. nal occurrences of Alternative-leaved Dogwood, Northern Prickly Ash and

erry, Galium sp., Herb-robert and Poison Ivy.

rences of American Elm, Black Ash (Fraxinus nigra), Eastern Hemlock, White

, with rare occurrences of Red-osier Dogwood and Common Buckthorn. *ocynum cannabinum*), Tall Buttercup (*Ranunculus acris*), Toad Rush (*Juncus* e (*Vitis riparia*).

ional occurrences of Sugar Maple and Bur Oak. Rare occurrences of

nontanum), Riverbank Grape and Virginia Creeper.

ccurrences of Black Ash and American Elm. spberry (*Rubus odoratus*). *cagineum*), Bluegrass species (*Poa* sp)., Moss species, Northern Bedstraw

sional occurrences of Eastern Red Cedar and Eastern White Cedar are

ana), Tall Yellow Hawkweed and Poison Ivy. Occasional occurrences include rrot.



First A	pproximation	Second	Approximation	C - 11 - *	Identifier on	
ELC Code	Classification	ELC Code	Classification	Soils*	Figure 4^	Vegetation~
N/A	N/A	FOMM4-3	Dry – Fresh White Cedar – Hardwood Mixed Forest Type	Silt; Moisture = 0	26	This hardwood mixed forest is dominated by Eastern White Cedar with occasional occurrence ssp. <i>deltoides</i>). The shrub layer consists of Northern Prickly Ash, Common Buckthorn, White Ash, Sugar Map Herbaceous species present include Aster sp., Wild Sarsaparilla, Poison Ivy, Wild Lily-of-the-v See Photo 17 in <i>Appendix B</i> .
FOM5-2	Dry – Fresh Poplar Mixed Forest Type	FOMM5-2	Dry – Fresh Poplar Mixed Forest Type	Sandy Loam; Moisture = 2	27	This mixed forest community is dominated by Trembling Aspen with Eastern Red Cedar, Ame The shrub layer is dominated by Eastern Red Cedar and Eastern White Cedar with occasional (<i>Prunus virginiana</i>) and Red-Osier Dogwood. Herbaceous species present include Grass sp., Aster sp., Field Horsetail (<i>Equisetum arvense</i>), See Photo 18 in <i>Appendix B</i> .
MAM	Meadow Marsh	MAM	Meadow Marsh	N/A	28	In 50 m setback from the connection lines and transmission line routes. (photo not available
N/A	N/A	MAMM1-2	Cattail Graminoid Mineral Meadow Marsh Type	N/A	30	In 50 m setback from some of the connection line routes. Community observed from roadsic (<i>Typha latifolia</i>) or Narrow-leaved Cattail (<i>Typha angustifolia</i>). See Photo 19 in Appendix B .
MAM2-2	N/A	MAMM1-3	Reed-canary Grass Graminoid Mineral Meadow Marsh Type	N/A	31	This community consists of Reed Canary Grass, Willow sp., Sensitive Fern, Stiff Marsh Madde Cottongrass Bulrush, Lesser Duckweed (<i>Lemna minor</i>), Wild Sarsaparilla, Common Boneset (<i>struthiopteris</i>), Marsh Fern (<i>Thelypteris palustris</i>) and Tall Mannagrass. See Photo 20 in <i>Appendix B</i> .
MAM2-5	Narrow-leaved Sedge Mineral Meadow Marsh Type	MAMM1-9	Narrow-leaved Sedge Graminoid Mineral Meadow Marsh Type	Silty Clay Loam; Moisture = 6	32	This community consist of Spikerush, Bebb's Sedge, Fox Sedge, Woolly Sedge (<i>Carex pellita</i>), rare occurrences of Narrow-leaved Cattail, Remote Sedge (<i>Carex tenera</i>). See Photo 21 in <i>Appendix B</i> .
N/A	N/A	MAMM3	Mixed Mineral Meadow Marsh	N/A	33	This community was assessed roadside and appeared to contain a more even mix of wetland without a clear dominant species. See Photo 22 in <i>Appendix B</i> .
N/A	N/A	MAMO1-2	Cattail Graminoid Organic Meadow Marsh Type	N/A	34	This community contains abundant occurrences of Narrow-leaved Cattail with occasional oc Grass, and Tussock Sedge (<i>Carex stricta</i>). See Photo 23 in <i>Appendix B</i> .
MAM3-2	Reed-canary Grass Organic Meadow Marsh Type	MAMO1-3	Reed-canary Grass Organic Meadow Marsh Type	N/A	35	Herbaceous vegetation consist of abundant occurrences of Reed Canary Grass and Hop Sedg species present include Hammer Sedge (<i>Carex hirta</i>), Marsh Horsetail (<i>Equisetum palustre</i>), <i>incarnata</i>), Tussock Sedge, Sensitive Fern, Fox Sedge and Wild Lily-of-the-valley. This community contains White Meadowsweet with Red-osier Dogwood and Willow sp. amo See Photo 24 in <i>Appendix B</i> .

nces of Paper Birch, Basswood, and Eastern Cottonwood (Populus deltoides

aple and Black Cherry. e-valley (*Maianthemum canadense*), Bloodroot, and Virginia Creeper.

merican Elm and Sugar Maple associates. nal occurrences of Common Buckthorn, Ground Juniper, Choke Cherry

e), Riverbank Grape.

ole)

side and generally appears to be dominated by either Broad-leaved Cattail

lder (*Galium tinctorium*), Smartweed sp., with rare occurrences of t (*Eupatorium perfoliatum*), Wild Lily-of-the-valley, Ostrich Fern (*Matteuccia*

a), Reed Canary Grass, Yellow Water Buttercup (Ranunculus flabellaris) with

nd graminoids and forbs observed in the adjacent willow thicket swamp but

occurrences of Northern Blueflag (Iris versicolor), Salix sp., Reed Canary

dge (*Carex lupulina*), with occasional occurrences of Marsh Fern. Other), Water Loosestrife (*Lysimachia thyrsiflora*), Swamp Milkweed (*Asclepias*

mong the shrub layer.



FIISUP	Approximation	Second	d Approximation	Soils*	Identifier on	Vegetation~
ELC Code	Classification	ELC Code	Classification		Figure 4^	
MAM1	Bedrock Meadow Marsh	MAMR3	Bedrock/Rock Meadow Marsh	N/A	36	This community is dominated by Hammer Sedge with rare occurrences of Salix sp., Red-osier Common Boneset. See Photo 25 in <i>Appendix B</i> .
MAS3-1	Cattail Organic Shallow Marsh Type	MASO1-1	Cattail Organic Shallow Marsh Type	N/A	37	This community is dominated by Narrow-leaved Cattail with abundant occurrences of Marsh occurrences species include Water Dock (<i>Rumex orbiculatus</i>), Swamp Milkweed, Marsh Mar others. See Photo 26 in <i>Appendix B</i> .
CUM1-1	N/A	MEFM4/ TAGM1	Fresh – Moist Forb Meadow Ecosite	Silty Loam; Moisture 2	38	The forb meadow community is dominated by Goldenrod sp., Maiden's Tears (<i>Silene vulgari</i> . Bull Thistle (<i>Cirsium vulgare</i>), Wild Carrot, Garden Bird's-foot Trefoil, Oxeye Daisy, Field Haw Vetch, and Poison Ivy are also present, among others. This community also contains an inclusion composed of White Spruce planted in rows. See Photo 27 in <i>Appendix B</i> .
CUM1-1	N/A	MEGM4	Fresh - Moist Graminoid Meadow Ecosite	Loamy Fine Sand; Moisture = 1-4	39	This graminoid meadow community consists of abundant occurrences include Goldenrod sp Tufted Vetch, Self-Heal (<i>Prunella vulgaris</i> ssp. <i>vulgaris</i>), Yellow Sweet-clover (<i>Melilotus offici</i> Strawberry, Poison Ivy, Spreading Dogbane and Alfalfa (<i>Medicago sativa</i>). See Photo 28 in <i>Appendix B</i> .
CUM1	N/A	MEMM3	Dry – Fresh Mixed Meadow Ecosite	Clay; Moisture = 0	40	This mixed meadow community is dominated by Reed Canary Grass, with Tall Buttercup and Tufted vetch, Oxeye Daisy, Garden Bird's-foot Trefoil, Black Medic (<i>Medicago lupulina</i>), Com (<i>Geum triflorum</i>), Yellow Sweet-clover, Poison Ivy and Toad Rush. Species rarely occurring include Bull Thistle, Common Burdock, Silvery Cinquefoil (<i>Potentilla</i> Anemone (<i>Anemone virginiana</i> var. <i>virginiana</i>) as well as Bedstraw sp., and Agrimony sp. Occasional tree and shrub species present within this community include Eastern Red Cedar, Buckthorn and Tartarian Honeysuckle (<i>Lonicera tatarica</i>). See Photo 29 in <i>Appendix B</i> .
CUM1	N/A	MEMM4	Fresh-Moist Mixed Meadow Ecosite	Sandy Loam; Moisture = 2	41	This mixed meadow community is dominated by Eastern Late Goldenrod (<i>Solidago altissima</i> occurrences of Oxyeye Daisy, White Sweet-clover, Wild Strawberry, and Red Clover. Rare spectra <i>maculatum</i>), Common Goat's-beard, Yellow Sweet-clover, and Galium sp. Occasional tree and shrub species present within this community include Willow sp., Slipper with rare occurrences of Tartarian Honeysuckle, Hawthorn sp., and Virginia Creeper. See Photo 30 in <i>Appendix B</i> .
CUM2	N/A	MEMR2	Dry-Fresh Non- Calcareous Bedrock Mixed Meadow Ecosite	Clay Loam; Moisture = 0	42	This mixed meadow community is dominated by Orchard Grass with abundant occurrences of Tufted Vetch, Eastern Late Goldenrod (<i>Solidago altissima</i> ssp. <i>altissima</i>), Common Yarrow, V Dogbane, Common Goatsbeard, Reed Canary Grass, Sweet White Clover, Amethyst Aster (<i>S</i>) Grey Goldenrod, Wild Parsnip, Black Medic, Field Milkweed, Heath Aster, Self-Heal, Pussytov Alvar indicator species include Upland Goldenrod and Prairie Smoke. Shrub occurrences were rare and consist of Eastern Red Cedar, American Elm, Common Buc Northern Prickly Ash, Tartarian Honeysuckle, Wild Raspberry and Gray Dogwood. See Photo 31 in <i>Appendix B</i> .

ier Dogwood, American Elm, Northern Blueflag, Reed Canary Grass, and

sh Horsetail and occasional occurrences of Marsh Madder. Rare arigold (*Caltha palustris*), Northern Blueflag, and Reed Canary Grass among

aris), and Common Milkweed (Asclepias syriaca). Occasional occurrences of awkweed (Hieracium caespitosum ssp. caespitosum), Red Clover, Tufted

sp. Occasional species include Oxeye Daisy, Field Hawkweed, Red Clover, *icinalis*), Common Goatsbeard (*Aruncus dioicus*), Wild Carrot, Woodland

nd Goldrenrod spp associates. Occasional species include Orchard Grass, ommon Goatsbeard, Self-Heal, Philadelphia Fleabane, Three-flowered Avens

la argentea), Common St. John's-wort (Hypericum perforatum), Virginia

ar, Ground Juniper, Common Apple, Northern Prickly Ash, Common

na ssp. altissima), Reed Canary Grass, and Wild Carrot, with occasionally species present include Spotted Joe Pye Weed (*Eutrochium maculatum* var.

ery Elm (Ulmus rubra), Red-osier Dogwood, Enchanters Deadly Nightshade,

es of Garden Bird's-foot Trefoil. Occasional species include Oxeye Daisy, , Wild Strawberry, Timothy Grass, Yellow Hawkweed, Tall Buttercup, Hemp (*Symphyotrium ×amethystinum*), New England Aster, Sulphur Cinquefoil, toes, and Yellow Avens.

uckthorn, Russian Olive Common Apple (Malus pumila), Ground Juniper,



First A	pproximation	Secon	d Approximation	- Coil-*	Identifier on	
LC Code	Classification	ELC Code	Classification	Soils*	Figure 4^	Vegetation~
N/A	N/A	OAGM1	Annual Row Crop	N/A	43	Vegetation associated with this cultural community includes cultivated cereal and legume cr
N/A	N/A	OAGM2	Perennial Cover Crop	N/A	44	Vegetation associated with this cultural community generally consists of graminoid and forb summer for hay (photo not available).
N/A	N/A	OAGM4	Open Pasture	N/A	45	Herbaceous species commonly found throughout this cultural community include Sweet Wh Tufted Vetch, Common Goat's Beard, Oxeye Daisy, Common Yarrow, Garden Bird's-foot Tref Silvery Cinquefoil (photo not available).
N/A	N/A	OAO	Open Aquatic Area	N/A	46	Vegetation associated with this Open Water community is generally submerged with emerge around the banks. Community is associated with a tributary of Black Creek (photo not availa
						Moss, Lichen and Mossy Stonecrop (Sedum acre L.) is the dominate ground layer throughout
	Dry Lichen – Moss		Dry Lichen – Moss Open	Silty Sand;		This alvar community is primarily open with abundant occurrences of Bluegrass sp., and Gar Milkweed, Tufted Vetch, Orange and Yellow Hawkweed, Common Goat's-beard, Common Ya Common Mullein, Virginia Creeper, Oxeye Daisy, and Tall Cinquefoil (<i>Drymocallis arguta</i>).
ALO1-1	Open Alvar Pavement Type	RBOA1-1	Alvar Pavement Type	Moisture = 0	47	Abundant shrub occurrences include Eastern Red Cedar with occasional occurrences of Com Dogwood and Common Buckthorn.
						Alvar indicator species include Philadelphia Panicgrass, False Pennyyoyal, Wiry Panicgrass, B See Photo 32 in <i>Appendix B</i> .
						This community is present as an inclusion along the southern edge of RBOA1-1: Dry Lichen -
	Red Cedar – Early		Red Cedar Early	Loamy Fine Sand = 0	47	Herbaceous species include Moss, Lichen, Mossy Stonecrop, Common Fleabane, Common St Early Buttercup (<i>Ranunculus fascicularis</i>), Panicled Aster (<i>Symphyotrichum lanceolatum</i>), Co Philadelphia Panic Grass, Poison Ivy, Riverbank Grape, Field Milkweed, Viper's Bugloss, Com
ALT1-5	Buttercup Treed Alvar Type	RBTA1-5	Buttercup Treed Alvar Type		(inclusion)	The shrub layer constituted the transition area between Dry Lichen-Moss Open Alvar Pavem Forest. It consisted of occasionally occurrences of European Buckthorn, Common Juniper, Gr White Elm and American Basswood.
						See Photo 33 in <i>Appendix B</i> . This alvar community contain occasional occurrences of Eastern Red Cedar and Eastern Whi
						The shrub layer is dominated by Ground Juniper with occasional occurrences of the Northern
ALS1-1	Common Juniper Shrub Alvar Type	RBSA1-1	Common Juniper Shrub Alvar Type	Bedrock; Moisture = N/A	49	Herbaceous species present include Yellow and Orange Hawkweed, Philadelphia Fleabane, F Grass, Moss and Lichen .
						See Photo 34 in Appendix B (Photo was obtained during fall survey and therefore out of nur
						The shrub layer is the dominate community in this alvar ecosite, with abundant occurrences occasional occurrences of Ironwood, American Elm, Red-osier Dogwood, Ground Juniper, Pr Honeysuckle.
ALS1	Shrub Alvar Ecosite	RBSA1	Alvar Shrub Rock Barren Ecosite	Bedrock; Moisture = N/A	50	Herbaceous species present include Moss, Lichen, Grasses sp., Wild Carrot, Common Milkwe Sweet White-clover, Oxyeye Daisy, Tufted Vetch, Poison Ivy, Black Medic, Common Yarrow, (Anemone virginiana), Early Goldenrod (Solidago juncea), Gray Goldenrod (Solidago nemora
						See Photo 35 in <i>Appendix B</i> .

crops planted in rows such as wheat, corn and soy (photo not available).

rb species observed in other meadow communities that are cut back in the

Vhite-clover, Red Clover, Common Timothy, Orchard Grass, Tall Buttercup, refoil, Common Viper's-bugloss (*Echium vulgare*), Self-heal, Toad Rush and

rgent species such as Reed Canary Grass, Cattails and other wetland species ilable).

out this community.

arden Bird's-foot Trefoil, with occasional occurrences of Common Yarrow, Common Evening Primrose (*Oenothera biennis*), Red Clover,

mmon Buckthorn and rare occurrences of White Pine, Willow sp., Gray

Balsam ragwort (*Packera paupercula*) and Upland Goldenrod.

– Moss Open Alvar Pavement Type (community identifier 47).

St. John's Wort, Grey Goldenrod (*Solidago nemoralis*), Common Yarrow, Common Bird's Foot Trefoil, New England Aster, Curly Dock (*Rumex crispus*), mmon Timothy Grass, Sulphur Cinquefoil (*Potentilla recta*), and Wild Carrot. ement Type to Dry-Fresh Oak Hardwood-Non-calcareous Shallow Deciduous Green Ash, Eastern Red Cedar, Tartarian Honeysuckle, Trembling Aspen,

hite Cedar.

ern Prickly Ash and Staghorn Sumac.

, Red Clover, White Sweet-clover, Oxeye Daisy, Common Yarrow, Blue-eye

umerical order).

es of Staghorn Sumac (*Rhus hirta*) and Common Buckthorn with the Prickly Ash, Eastern White Cedar, Eastern Red Cedar, and Tartarian

weed, and Riverbank Grape. Occasional occurrences of Yellow Hawkweed, v, Common Goats-beard, and Wild Lily-of-the-Valley, Thimbleweed ralis), Heath Aster (*Symphyotrichum ericoides*), Common Mullein.



First A	pproximation	Second	d Approximation	Soils*	Identifier on	Vegetation~
LC Code	Classification	ELC Code	Classification	50115	Figure 4^	vegetation
CUW2-1	Red Cedar Cultural Alvar Woodland Type	RBTA1-7	Red Cedar Alvar Woodland Type	Silty Sand; Moisture = 0	51	This alvar woodland community is dominated by Eastern Red Cedar in the canopy, sub-canop White Cedar, and White Ash in the canopy layer. In the sub-canopy occasional occurrences include Prickly Ash, Common Buckthorn, Staghorn Herbaceous species present include Oxeye Daisy, Tall Buttercup, Self-heal, Orange Hawkwee Three-flowered Avens, Tufted Vetch, Wild Carrot, Poison Ivy, Common Milkweed ,Common I Canada Thistle, Grey Goldenrod, New England Aster and Mossy Stonecrop. Areas of Lichen well. Alvar indicator species included Philadelphia Panic Grass, False Pennyroyal, Flat stemmed Sp Upland Goldenrod (<i>Solidago ptarmicoides</i>), Balsam ragwort, Early Buttercup (<i>Ranunculus fas</i> See Photo 36 in <i>Appendix B</i> .
RBT1-1	Red Cedar Carbonate Treed Rock Barren Type	RBTB1-1	Red Cedar Calcareous Treed Rock Barren Type	Bedrock; Moisture = N/A	52	This rock barren is dominated by Eastern Red Cedar with rare occurrences of White Elm and The shrub layer is dominated by Common Buckthorn and Northern Prickly Ash with occasion and Tartarian Honeysuckle (<i>Lonicera tataricq</i>). Herbaceous species present include Oxyeye Daisy, Garden Bird's-foot Trefoil, Grass sp., Com Common Viper's-bugloss, and Common Mullein. See Photo 37 in <i>Appendix B</i> .
SWC3-1	White Cedar Organic Coniferous Swamp Type	SWCO1-1	White Cedar Organic Coniferous Swamp Type	Organic (humic); Moisture = 8	53	 This community is dominated by Eastern White Cedar with rare occurrences of Green Ash, B American Elm. The shrub layer consists of Green Ash, Black Ash, American Elm, Silky Dogwood and Red-osie Sp. and White Meadow-sweet. Herbaceous species consist of Marsh Fern, Common Duckweed, Sensitive Fern, Wild Sarsapa Sedge (<i>Carex stipata</i>), Narrow-leaved Cattail and Northern Blueflag. Rare occurrences of Bitt <i>hystericina</i>), American Hog-peanut (<i>Amphicarpaea bracteata</i>), Marsh Horsetail, Hemlock Wa bearing Water-hemlock (<i>Cicuta bulbifera</i>), Wild Mock-cucumber (<i>Echinocystis lobata</i>), Riverk <i>laxiflora</i>), Necklace Sedge (<i>Carex Projecta</i>), Bristly Sedge (<i>Carex comosa</i>), Northern Blueflag, Marsh Fern and Swamp Milkweed are also present.
SWD	Deciduous Swamp	SWD	Deciduous Swamp	N/A	54	This swamp community was within 50 m of a transmission line option though access was not interpreted from aerial imagery. (photo not available)
SWD2-1	Black Ash Mineral Deciduous Swamp Ecosite	SWDM2-1	Black Ash Mineral Deciduous Swamp Ecosite	Silty Clay Loam; Moisture = 6	55	This deciduous community is dominated by Black Ash with rare occurrences of Green Ash. The shrub layer consists of young Green Ash. The herbaceous layer is dominated by Reed Canary Grass with occasional occurrences of Eur (<i>Polygonum</i> sp.) Rare occurrences of Bitter-sweet Nightshade and Northern Water-plantain See Photo 39 in <i>Appendix B</i> .
SWD2-2	Green Ash Mineral Deciduous Swamp Ecosite	SWDM2-2	Green Ash Mineral Deciduous Swamp	Silty Clay; Moisture = 6	56	This community consist of abundant occurrences of Green Ash with occasional occurrences of Red-osier Dogwood are also present. The herbaceous species present include Fox Sedge, Spikerush species (<i>Eleocharis</i> sp.), Canad Cottongrass Bulrush, Sensitive Fern, Tall Manna Grass. See Photo 40 in <i>Appendix B</i> .

nopy and understory layer, with rare occurrences of American Elm, Eastern

orn Sumac, Common Apple, Ground Juniper and Gray Dogwood. eed, Common Yarrow, Red Clover, Riverbank Grape, Wild Strawberry, n Lilac, Viper's Bugloss, Curley Dock, Heath Aster, Reed Canary Grass, en and Moss are occasional to abundant throughout these community as

Spikerush (*Eleocharis compressa*), Wiry Panic Grass (*Panicum flexile*), fascicularis), Prairie Smoke, and Carolina Whitlow-grass (*Draba reptans*).

nd White Ash.

onal occurrences of Prickly Gooseberry, Common Apple, Ground Juniper

mmon Yarrow, Red Clover, Aster sp., Tufted Vetch, Wild Raspberry,

Black Ash, Eastern Cottonwood, Bristly Dewberry (Rubus hispidus) and

sier Dogwood with rare occurrences of Yellow Birch, Speckled Alder, Willow

parilla, Hammer Sedge, Fibrous-root Sedge (*Carex communis*), Awl-fruited hittersweet Nightshade (*Solanum dulcamara*), Porcupine Sedge (*Carex Water-parsnip (Sium suave*), Spotted Jewelweed (*Impatiens capensis*), Bulberbank Grape, Hammer Sedge, Fox Sedge, Loose-flowered Sedge (*Carex* g, Wild Sarsaparilla, Rattlesnake Fern, Canada Clearweed (*Pilea pumila*),

not permitted to asses it. The boundaries of the community were

European Stinging Nettle (*Urtica dioica* ssp. *dioica*) and Smartweed species in (*Alisma triviale*) also occur among others.

es of American Elm in the shrub layer. Rare occurrences of Willow sp. and

ada Rush, Northeastern Sedge, Bebb's Sedge, Reed Canary Grass,



First A	Approximation	Second	d Approximation	Soils*	Identifier or	Vegetation~
ELC Code	Classification	ELC Code	Classification	Solis	Figure 4^	vegetation
SWD3-3	Swamp Maple Mineral Deciduous Swamp Type	SWDM3-3	Swamp Maple Mineral Deciduous Swamp Type	Silty Clay; Moisture = 6	57	This community contains rare occurrences of Freeman's Maple (<i>Acer x freemannii</i>) and Trem The shrub layer contains occasional occurrences of Freeman's Maple, Green Ash, Silky Dogwo White Cedar. The herbaceous layer consists of Smartweed sp., Swamp Milkweed, Wild Lily-of-the-Valley, a See Photo 41 in <i>Appendix B</i> .
SWD4-5	Poplar Mineral Deciduous Swamp Type	SWDM4-5	Poplar Mineral Deciduous Swamp Type	Silty Clay; Moisture = 6	58	This community is dominated by Trembling Aspen, with occasional occurrences of Green Ash Maple, Riverbank Grape, Common Buckthorn and American Elm. Herbaceous species include Northern Water-horehound (<i>Lycopus uniflorus</i>), Common Bonese Northern Blue Flag, Water Parsnip, Northeastern Sedge, and Sensitive Fern. (photo not availa
SWD	Deciduous Swamp	SWDM4	Mineral Deciduous Swamp Ecosite	N/A	59	In 50 m setback from transmission line routes. Dense shrubs and high elevation along the edg Community canopy appeared to be dominated by Trembling Aspen and Freeman's Maple. See Photo 42 in <i>Appendix B</i> .
SWD6-3	Swamp Maple Organic Deciduous Swamp	SWDO2-3	Swamp Maple Organic Deciduous Swamp	Organic (humic); Moisture = 9	60	This community is dominated by Freeman's Maple with rare occurrences of Green Ash, Black The shrub layer consists of Green Ash, Black Ash, American Elm, Silky Dogwood and Red-osie Speckled Alder, Willow Sp. and White Meadow-sweet. Herbaceous species consist of Marsh Fern, Common Duckweed, Sensitive Fern, Wild Sarsapar leaved Cattail and Northern Blue Flag. Rare occurrences of Bitter-sweet Nightshade, Porcupir Jewelweed, Bulb-bearing Water Hemlock, Wild Mock-cucumber, Riverbank Grape, Hammer S Sarsaparilla, Rattlesnake Fern, Canada Clearweed, Marsh Fern and Swamp Milkweed. See Photo 43 in <i>Appendix B</i> .
SWT2	Mineral Thicket Swamp Ecosite	SWTM3	Willow Mineral Deciduous Thicket Swamp Ecosite	Silty Clay Loam; Moisture = 8	61	This community has rare occurrences of Trembling Aspen, Eastern White Cedar and American The shrub layer consists of abundant occurrences of Willow sp., with occasional occurrences White Cedar and American Elm. Herbaceous species consist of Bebb's Sedge, Hop Sedge, and Broom Sedge. See Photo 44 in <i>Appendix B</i> .
SWT3	Organic Thicket Swamp Ecosite	SWTO2	Willow Organic Deciduous Thicket Swamp	Organic (humic); Moisture = 9	62	This community was dominated by Willow sp., with rare occurrences of American Elm. Herbaceous species present include Sedge sp., CanadaManna Grass, Fox Sedge, and Red-osie See Photo 45 in <i>Appendix B</i> .
SWT3	Organic Thicket Swamp Ecosite	SWTO5	Organic Deciduous Thicket Swamp Ecosite	Organic (humic); Moisture = 8	63	This wetland community had a similar composition of vegetation to the Reed Canary Grass of electrical transmission line runs over head of the community with an adjacent mature swamp community was once part of that swamp but receives regular brushing to maintain the heigh community include Green Ash, Freeman's Maple with Red-osier Dogwood and White Meado generally dominated by Reed Canary Grass and other wetland forbs found in the adjacent met See Photo 46 in <i>Appendix B</i> .
CUP3	Coniferous Plantations	TAGM1	Coniferous Plantation	N/A	64	This land use consists of rows of planted coniferous trees. The majority of plantation lands in See Photo 47 in <i>Appendix B</i> .

embling Aspen in the canopy.

wood and Black Ash with rare occurrences of American Elm and Eastern

and Reed Canary Grass.

Ash and Eastern White Cedar. Rare occurrences of Black Ash, Freeman's

eset, Narrow-leaved Cattail, Aster sp., with rare occurrences of Poison Ivy, ailable)

edge of the community made it difficult to assess from the road.

ack Ash, Eastern Cottonwood, Bristly Dewberry and American Elm. sier Dogwood with rare occurrences of Yellow Birch, Eastern White Cedar,

parilla, Hammer Sedge, Fibrous-root Sedge, Awl-fruited Sedge, Narrowpine Sedge, American Hog-peanut, Marsh Horsetail, Water Parsnip, Spotted er Sedge, Fox Sedge, Necklace Sedge, Bristly Sedge, Northern Blueflag, Wild

can Elm. es of White Meadow-sweet and rare occurrences of Green Ash, Eastern

sier Dogwood with rare occurrences of Common Boneset.

s organic marsh but with higher abundances of deciduous tree saplings. An mp maple organic deciduous swamp to the south. It is likely this ight of vegetation in the utility corridor. The saplings that dominant this dowsweet associates. The areas not covered by woody vegetation are meadow marsh community.

in the vicinity of the Project Location contained spruce or pine.



First A	Approximation	Secon	d Approximation	C = 11 - *	Identifier on	
ELC Code	Classification	ELC Code	Classification	Soils*	Figure 4^	Vegetation~
N/A	N/A	TAGM4	Treed Pasture	N/A	65	In 50 m setback from the connection line routes. Generally the vegetation appeared to be sin but with obvious degradation by cattle such as overgrazing and rutting. (photo not available)
N/A	N/A	TAGM5	Hedgerow	N/A	66	These narrow linear tree communities are found throughout the lands in the vicinity of the P (photo not available)
N/A	N/A	THCM1-1	Dry – Fresh Red Cedar Coniferous Thicket Type	Loamy Clay; Moisture = 0	67	This thicket community is dominated by Eastern Red Cedar with occasional occurrences of W The shrub layer is dominated by Northern Prickly Ash and White Ash. Herbaceous species present include Grass sp., Yellow Sweet-clover, Common Yarrow, Orang Garden Bird's-foot Trefoil and Red Clover. See Photo 48 in <i>Appendix B</i> .
N/A	N/A	THDM2-7	Prickly Ash Deciduous Shrub Thicket Type	N/A	68	In 50 m setback from the transmission line routes. Dominated by dense Northern Prickly Ash See Photo 49 in <i>Appendix B</i> .
N/A	N/A	THDM2	Dry-fresh Deciduous Shrub Thicket Ecosite	N/A	69	In 50 m setback off of Centreville Road. Appeared to be similar composition to mixed meado such as Common Lilac and Staghorn Sumac. See Photo 50 in <i>Appendix B</i> .
N/A	N/A	THDM5-1	Gray Dogwood Deciduous Thicket	N/A	70	Community is found along the boundary of Swamp Maple Organic Deciduous Swamp and co species and a high abundance of Gray Dogwood in the understory. See Photo 51 in <i>Appendix B</i> .
CUW1-1	Dry – Moist Old Field Meadow Type	WOCM1-1	Dry-Fresh Red Cedar Coniferous Woodland Type	Clay; Moisture = 6	71	This woodland forest community is dominated by Eastern Red Cedar, with rare occurrences The shrub layer includes Northern Prickly Ash, Common Buckthorn and Ground Juniper. Herbaceous species present include Orchard Grass, Sedge sp., Gardens Bird's-foot Trefoil, Ox Orange Hawkweed, and Silvery Cinquefoil. See Photo 52 in <i>Appendix B</i> .
FOD5	Dry-Fresh Sugar Maple – Hardwood Calcareous Shallow Deciduous Forest Type	FODR1-1	Dry-Fresh Sugar Maple – Hardwood Calcareous Shallow Deciduous Forest	NA	72	This community was originally included as an inclusion in Dry-Fresh Red Cedar Alvar Woodlan assessment, this community was determined to be large enough to be a separate polygon. The dominant tree canopy is Sugar Maple with occasional American Elm. There was no shrub layer present within the community. Herbaceous vegetation was minimal due to the large areas of bedrock. Occasional to rare oc Common Red Raspberry was observed. See Photo 53 in <i>Appendix B</i> .
ALO1-4	Poverty Grass Open Alvar Meadow Type	RBOA1-4	Dry – Fresh Poverty Grass Open Alvar Meadow Type	Silty Loam = 0	73	This community exists in the northern section of NAP013, in an area of transition from RBOA Cedar – Hardwood Mixed Forest Type. Abundant herbaceous species include Moss, Lichen, Poverty Oatgrass (<i>Danthonia spicata</i>), a Fleabane, Common St. John's Wort, Grey Goldenrod, Common Yarrow, Early Buttercup, Pani Riverbank Grape, Field Milkweed, Viper's Bugloss, Hawkweed, Common Timothy, Sulphur Cir The shrub layer consisted of occasional occurrences of Tartarian Honeysuckle, Eastern Red C Green Ash. See Photo 54 in <i>Appendix B</i> .

similar in composition to the Dry-Fresh Red Cedar Coniferous Woodland le)

Project Location and are generally dominated by deciduous trees.

White Ash and Common Apple.

nge Hawkweed, Tall Buttercup, Oxeye Daisy, Tall Anemone, Tufted Vetch,

sh with occasional mature Red Cedar, Eastern White Cedar.

dow communities but with higher abundance of deciduous shrub species

contains similar upland species to that community with occasional wetland

es of Black Ash and White Cedar.

Oxeye daisy, Tufted Vetch, Wild Carrot, Wild Strawberry, Common Timothy,

lland Type (RBTA1-7) in the northern section of NAP021. Upon further

occurrences of Poison Ivy, Virginia Creeper, Black Medic, Moss, Lichen and

DA1-1 Dry Lichen – Moss Open Alvar Pavement Type and FOMM4-3: White

, and Cow Vetch. Occasional species include Mossy Stonecrop, Common anicled Aster, Bird's-foot Trefoil, Path Rush, New England Aster, Poison Ivy, Cinquefoil and Wild Carrot.

l Cedar, Common Juniper, and rare occurrences of European Buckthorn, and



First A	pproximation	Second Approximation			Identifier on	
ELC Code	Classification	ELC Code	Classification	Soils*	Figure 4^	Vegetation~
CUM	Cultural Meadow	SAGM6	Shrub Pastureland	Silty Loam = 0	74	The shrub layer is dominated by Eastern Red Cedar and Ground Juniper with occasional occur Buckthorn and Tartarian Honeysuckle. Rare occurrences of Bur Oak and American Elm. Herbaceous species include Oxeye Daisy, Orchard Grass, Timothy Grass, Bird's Foot-trefoil, Ye Black Medic, Goat's Beard, Red Clover, Self-Heal, Wild Strawberry, Thimbleweed, Tall Butterco
						See Photo 55 in Appendix B.

*Note: where soils is indicated 'N/A' this was based on lack of direct access to the property to collect soils information. Soils also were not described in agricultural fields. Aldentifiers 1, 18, 29 and 48 was intentionally omitted. ~ The polygon identifiers in **Figure 4** correspond to a table included in **Appendix B** with the sizes of each polygon.

currences of Crab Apple, White Ash, Northern Prickly Ash, European

Yellow Hawkweed, Cow Vetch, Common Yarrow, Canadian Bull thistle, ercup, Prairie Smoke, Queen Anne's Lace and Yellow Sweet Clover.



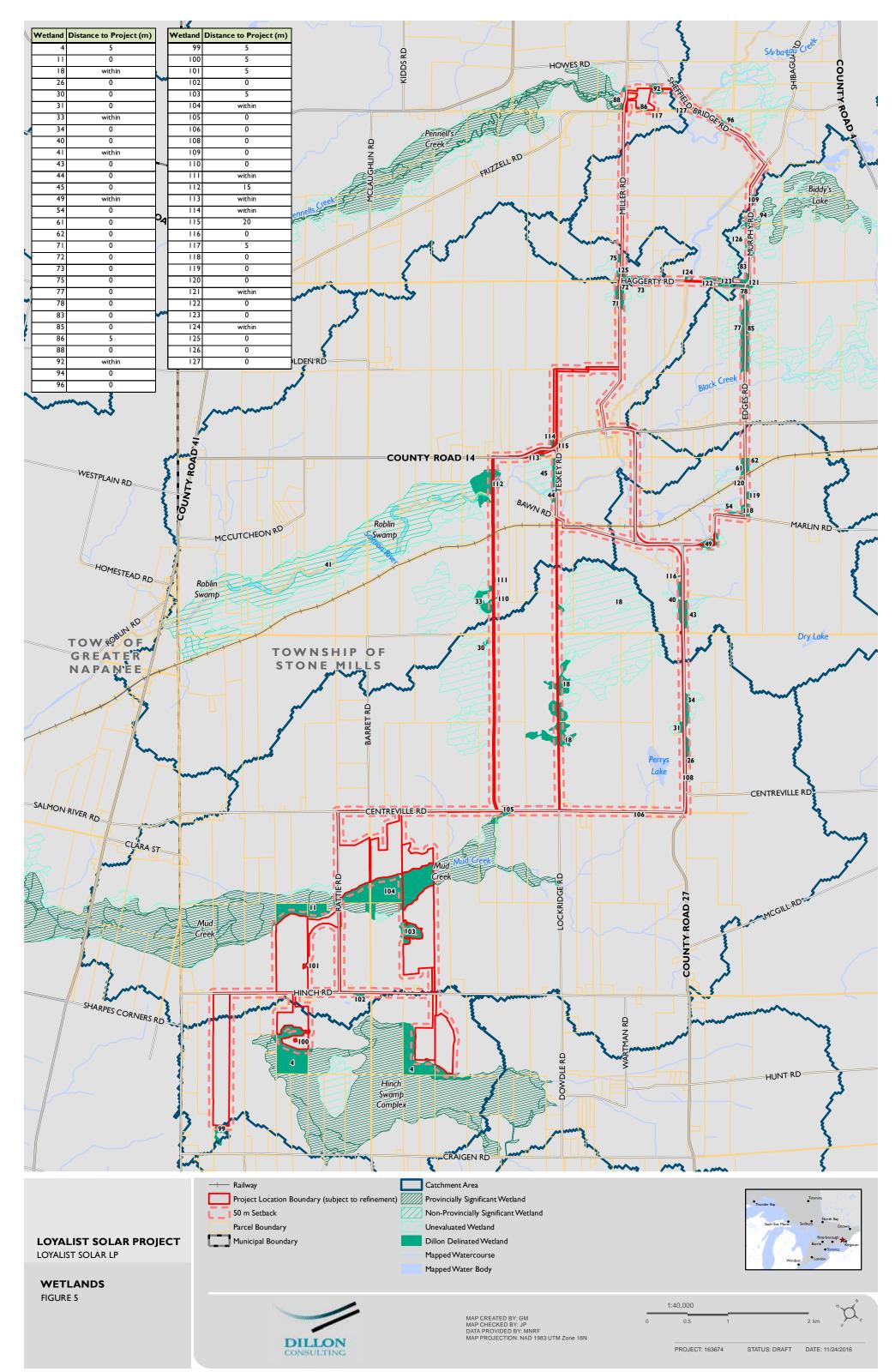
7.2.2 Wetlands

As detailed in the *NHA Records Review Report*, a search and analysis of the records and resources identified twelve unevaluated southern wetlands located within the Project Location and/or 50 m setback area (**Figure 3**). Two provincially significant wetlands, Mud Creek and Hinch Swamp Complex, were identified in the Project Location or within the surrounding 50 m. Two additional provincially significant wetlands (Pennell's Creek and Biddy's Lake) and one evaluated non-provincially significant wetland (Roblin Swamp) were identified within the 50 m setback associated with connection line options. The focus of the wetlands site investigation was to determine the boundaries of wetland features as presented in **Figure 3** and to determine if additional wetlands were present. Where wetland features were identified using ELC (**Figure 4** and **Table 6**), delineation of the communities was undertaken using the OWES protocol (MNRF 2014).

The boundaries of all wetlands identified are shown on **Figure 5**. Please note, number identifiers for wetland units are not in sequence (the table starts with wetlands at the southern end of Project Location and generally moves north). As per Section 26 of *Ontario Regulation 359/09*, the mapping for the *NHA Site Investigation Report* is required to include the distance from an identified natural feature to the Project Location boundary. For natural features that may occur in a large area of the overall landscape, the distance reported on **Figure 5** is the closest distance to the Project Location boundary. Wetlands are identified as "within" the Project Location where a portion of the wetland is within a connection route option or a collector/collection line may be directionally bored under the wetland unit. Where the distance is reported as "0 m" from the Project Location boundary, this generally relates to the connection line options that are within the municipal road right-of-way. Where wetland features were identified immediately adjacent to municipal roads, it is assumed that the area of road right-of-way is not part of the wetland. For other areas of the Project Location, a minimum associated buffer of 5 m from the delineated edge of a wetland has been provided. This represents the distance between the edge of the wetland and the proposed construction area within the Project Location. Distances to PV panels, access roads and inverter stations are anticipated to exceed this minimum distance.

Table 7 outlines the attributes, composition and function of each wetland unit and confirms if the wetland was included in the records review or was identified as a result of these site investigations (**Figure 5**). Where candidate wildlife habitat is identified in association with a wetland unit, it should be noted that the wetland unit may form part of a larger natural feature under considerations as candidate wildlife habitat. **Figure 5** also outlines the minimum distance between the Project Location boundary and the closest portion of the wetland feature. Project components that fall within 50 m of each wetland boundary will be included in the *NHA Environmental Impact Study Report*. Amendments to the *NHA Records Review* are outlined in **Section 8**.





FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Figure 5 Wetlands.mxd

٥		Attr	ibutes	Com	position		Function	1	Minimum Distance to Project Location
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	
4	Yes Hinch Swamp Complex PSW Boundary Revised	306.3	48.1 m to Wetland 100	Swamp Maple (Acer x freemanii), Green Ash (Fraxinus pennsylvanica), Black Ash (Fraxinus nigra), White Elm (Ulmus americana), Eastern Cottonwood (Populus deltoides), Willow species (Salix sp.), Red-osier Dogwood (Cornus sericea ssp. sericea), Sensitive Fern (Onoclea sensibilis), Marsh Fern (Thelypteris palustris var. pubescens), Wild Sarsaparilla (Aralia nudicaulis), Bristly Dewberry (Rubus hispidus), Reed Canary Grass (Phalaris arundinacea), Narrow-leaved Cattail (Typha angustifolia), Hop Sedge (Carex lupulina), Fox Sedge (Carex vulpinoidea), Smartweed species (Persicaria sp.), Marsh Bedstraw (Galium palustre), Lesser Duckweed (Lemna minor)	Swamp Maple Organic Deciduous Swamp (SWDO2-3) Reed Canary Grass Graminoid Mineral Meadow Marsh (MAMM1-3)	H:Deciduous Trees Ts: Tall Shrubs Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent Be: Broad-leaved Emergent FF: Free Floating	 Generalized Candidate Significant Wildlife Habitat Amphibian Breeding Habitat (Woodland) Colonially Nesting Bird Breeding Habitat (Tree & Shrubs) Marsh Breeding Bird Habitat (Green Heron) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Waterfowl Nesting Habitat Woodland Raptor Nesting Habitat Wood Thrush Habitat Old Growth Forest Red-headed Woodpecker Habitat 	No surface connection to other wetlands associated with the Project. Permanent outflows observed in the south part of the PSW crossing Craigen Road.	5 m
99	No	1.86	8.4 m to Wetland 98	Willow species, Trembling Aspen, White Meadowsweet, Green Ash, Eastern White Cedar, White Elm, Red-osier Dogwood, Bebb's Sedge, Hop Sedge, Pointed Broom Sedge (<i>Carex scoparia</i>), Narrow-leaved Cattail, Marsh Bedstraw, Sensitive Fern	Willow Mineral Deciduous Thicket Swamp (SWTM3)	H:Deciduous Trees C: Coniferous Trees Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat Waterfowl Nesting Area Amphibian Breeding Habitat (Woodland) Red-headed Woodpecker Habitat Wood Thrush Habitat Butterfly Species of Conservation Concern Habitat 	No surface connection observed	5 m
100	No	0.06	48.1 m to Wetland 4	Willow species, Reed Canary Grass	Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	Ne: Narrow-leaved Emergent Ts: Tall Shrubs	 Waterfowl Nesting Area 	No surface connection observed	5 m
102	No	0.79	219.5 m to Wetland 4	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Waterfowl Nesting Habitat 	Likely seasonal overland flow connection to Wetland Unit 11/104 (Mud Creek PSW)	0 m

Table 7: Summary of Wetlands within the Project Location and surrounding 50 m



Q	\A/otland	Attr	ibutes	Con	nposition		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
11	Yes Mud Creek PSW Boundary Revised	288.8	1.7 m to unevaluated wetland beyond Project location	 Willow species, White Elm, Swamp Maple, White Meadowsweet (Spiraea alba), Red-osier Dogwood, Sedge species (Carex sp.), Lake-bank Sedge (Carex lacustris), Porcupine Sedge (Carex hystericina), Narrow-leaved Cattail, Marsh Bedstraw, Broad-leaved Cattail (Typha latifolia), Marsh Horsetail (Equisetum palustre), American Burreed (Sparganium americanum), Canada Mannagrass (Glyceria canadensis), Sensitive Fern, Reed Canary Grass, Spotted-joe Pyeweed (Eutrochium maculatum), Harlequin Blue Flag (Iris versicolor), Greater Water Dock (Rumex orbiculatus), Marsh Marigold (Caltha palustris), Sweet Flag (Acorus americanus), Common Boneset (Eupatorium perfoliatum), Canada Anemone (Anemone canadensis), Water Loosestrife (Lysimachia thyrsiflora), Swamp Milkweed (Asclepias incarnata) 	Willow Mineral Deciduous Thicket Swamp (SWTM3) Willow Organic Deciduous Thicket Swamp (SWTO2) Cattail Graminoid Organic Shallow Marsh (MASO1-1) Reed Canary Grass Graminoid Mineral Meadow Marsh (MAMM1-3) Swamp Maple Organic Deciduous Swamp (SWDO2-3) Mud Creek PSW	Re: Robust Emergent Ne: Narrow-leaved Emergent Be: Broad-leaved Emergent H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Trees Ts: Tall Shrubs Ls: Low Shrubs Gc: Herbs	 Generalized Candidate Significant Wildlife Habitat Woodland Area-Sensitive Bird Breeding Habitat Waterfowl Nesting Habitat Amphibian Breeding Habitat (Woodland) Colonially Nesting Bird Breeding Habitat (Ground) Old Growth Forest Red-headed Woodpecker Habitat Large Yellow Pond Lily Habitat 	Mud Creek begins north of Centreville Road and east of Lockbridge Road. It runs through the PSW in a westerly direction to where it connects with the Salmon River. Connects several unevaluated wetlands not associated with Project.	0 m
104	Yes Mud Creek PSW Boundary Revised	85.47	8.2 m to Wetland 11	 Willow species, White Elm, Swamp Maple, White Meadowsweet (<i>Spiraea alba</i>), Red-osier Dogwood, sedge species (<i>Carex</i> sp.), Lake-bank Sedge (<i>Carex lacustris</i>), Porcupine Sedge (<i>Carex hystericina</i>), Narrow-leaved Cattail, Reed Canary Grass, Broad-leaved Cattail (<i>Typha latifolia</i>), Marsh Horsetail (<i>Equisetum palustre</i>), American Burreed (<i>Sparganium americanum</i>), Marsh Bedstraw, Sensitive Fern, Canada Mannagrass (<i>Glyceria canadensis</i>), Spotted-joe Pyeweed (<i>Eutrochium maculatum</i>), Harlequin Blue Flag (<i>Iris versicolor</i>), Greater Water Dock (<i>Rumex orbiculatus</i>), Marsh Marigold (<i>Caltha palustris</i>), Sweet Flag (<i>Acorus americanus</i>), Common Boneset (<i>Eupatorium perfoliatum</i>), Canada Anemone (<i>Anemone canadensis</i>), Water Loosestrife (<i>Lysimachia thyrsiflora</i>), Swamp Milkweed (<i>Asclepias incarnata</i>) 	Willow Mineral Deciduous Thicket Swamp (SWTM3) Willow Organic Deciduous Thicket Swamp (SWTO2) Cattail Graminoid Organic Shallow Marsh (MASO1-1) Reed Canary Grass Graminoid Mineral Meadow Marsh (MAMM1-3) Swamp Maple Organic Deciduous Swamp (SWDO2-3) Mud Creek PSW	Re: Robust Emergent Ne: Narrow-leaved Emergent Be: Broad-leaved Emergent H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Trees Ts: Tall Shrubs Ls: Low Shrubs Gc: Herbs	 Waterfowl Stopover and Staging Area (Aquatic) Colonially Nesting Bird Breeding Habitat (Trees & Shrubs; Ground) Waterfowl Nesting Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Turtle Overwintering Habitat Turtle Nesting Area Amphibian Breeding Habitat (Woodland) Marsh Breeding Bird Habitat (General; Green Heron) Terrestrial Crayfish Large Yellow Pond Lily Habitat Wood Thrush Habitat 	Mud Creek begins north of Centreville Road and east of Lockbridge Road. It runs through the PSW west to where it connects with the Salmon River. Connected by surface water to Wetland 11 and several unevaluated wetlands not associated with Project.	Within



٩	Motland	Attri	ibutes	Com	position		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
105	No	0.28	12.2 m to Wetland 104	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Old Growth Forest Waterfowl Nesting Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting HabitatAmphibian Breeding Habitat (Woodland) Red-headed Woodpecker Habitat Butterfly Species of Conservation Concern Habitat 	Surface water connection to Wetland Unit 11 and 104 (Mud Creek PSW)	0 m
101	No	0.16	532.7 to Wetland 11	Bebb's Sedge, Fox Sedge, Slender Sedge, Spikerush Species, Woolly Sedge (<i>Carex pellita</i>), Reed Canary Grass, Narrow-leaved Cattail	Narrow-leaved Sedge Graminoid Mineral Meadow Marsh (MAMM1-9)	Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	 Amphibian Breeding Habitat (Wetland) Waterfowl Nesting Habitat 	No surface connection observed	5 r
103	No	4.71	127 m to Wetland 104	Green Ash, White Elm, Trembling Aspen, Willow species, Red-osier Dogwood, Eastern White Cedar, Bebb's Sedge, Lake-bank Sedge, Tussock Sedge, Tuckerman's Sedge (<i>Carex tuckermanii</i>), Northeastern Sedge, Swamp Milkweed, Swamp White Oak (<i>Quercus bicolor</i>), Canada Mannagrass, Reed Canary Grass, Narrow-leaved Cattail, Marsh Bedstraw, Marsh Horsetail, Common Boneset, Porcupine Sedge, Harlequin Blue Flag	Green Ash Mineral Deciduous Swamp (SWDM2-2) Cattail Graminoid Organic Meadow Marsh (MAMO1-2) Bedrock Meadow Marsh (MAMR3)	H:Deciduous Trees C: Coniferous Trees Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat Marsh Breeding Bird Habitat (Green Heron) Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Waterfowl Nesting Habitat 	No surface connection observed	5 n
18	Yes Boundary Revised	131.03	30.5 m to an unevaluated wetland beyond Project Location	Swamp Maple, Black Ash, Green Ash, White Elm, Eastern White Cedar (<i>Thuja occidentalis</i>), Bristly Dewberry, Red-osier Dogwood, Reed Canary Grass, Harlequin Blue Flag, Wild Sarsaparilla, Canada Mannagrass, Marsh Fern, Canada Clearweed (<i>Pilea pumila</i>), Northeastern Sedge, Grey Dogwood (<i>Cornus racemosa</i>), Silky Dogwood (<i>Cornus obliqua</i>), Hop Sedge, Swamp Milkweed, Smartweed species, Canada Anemone *Communities were quite flooded in spring of 2016, water was still receding, leaving large areas of bare ground at time of survey	Swamp Maple Organic Deciduous Swamp (SWDO 2-3) White Cedar Organic Coniferous Swamp (SWCO1-1) Poplar Mineral Deciduous Swamp (SWDM4-5) Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H:Deciduous Trees C: Coniferous Trees Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent	 Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Waterfowl Nesting Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Marsh Breeding Bird Habitat (Green Heron) Waterfowl Stopover & Staging Area (Aquatic) Reptile Hibernaculum 	Likely seasonal surface water connection to Wetland 104/105	Within



		Attr	ibutes	Comp	oosition		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
30	Yes Boundary Revised	50.39	48.4 m to an unevaluated wetland beyond Project Location	Reduced in size. One small unit left on a property where no access was granted to assess – boundary extrapolated from aerial imagery	SWD: Deciduous Swamp	H: Deciduous Trees	 Old Growth Forest Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Butterfly Species of Conservation Concern Habitat Generalized Candidate Significant Wildlife Habitat Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Waterfowl Nesting Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat 	Undetermined	0 m
33	Yes Boundary Revised	35.21	10.2 m to Wetland 110	Trembling Aspen, Black Ash, Eastern White Cedar, White Elm, Swamp Maple, Red-osier Dogwood, Common Boneset, Narrow-leaved Cattail, Northern Water-horehound (<i>Lycopus uniflorus</i>), Northeastern Sedge, Sensitive Fern, Hemlock Water Parsnip (<i>Sium suave</i>), Harlequin Blue Flag	Poplar Mineral Deciduous Swamp (SWDM4-5)	H:Deciduous Trees C: Coniferous Trees Ls: Low Shrubs Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent Be: Broad-leaved Emergent	 Waterfowl Stopover & Staging Area (Aquatic) Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Waterfowl Nesting Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Old Growth Forest Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Butterfly Species of Conservation Concern Habitat 	Appears to be connected to other unevaluated further west	Within
110	Yes Boundary Revised	0.07	10.2 m to Wetland 33	On a property where no access was permitted. Delineation was completed within corridor only. Dense coniferous hedgerow made an alternative assessment difficult. Appeared to be a mix of common wetland forbs and graminoids observed in other communities within the larger study area.	Meadow Marsh (MAM)	Ne: Narrow-leaved Emergent	 Generalized Candidate Significant Wildlife Habitat Amphibian Breeding Habitat (Woodland) Waterfowl Nesting Habitat Butterfly Species of Conservation Concern Habitat 	No connection observed	0 m



٥		Attr	ibutes	Сотр	osition		Function		- Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
111	Yes Boundary Revised	0.16	31.9 m to an unevaluated wetland beyond Project Location	On a property where no access was permitted. Delineation was completed within corridor only. Dense coniferous hedgerow made an alternative assessment difficult. Appeared to be a mix of common wetland forbs and graminoids observed in other communities within the larger study area.	Meadow Marsh (MAM)	Ne: Narrow-leaved Emergent	 Amphibian Breeding Habitat (Woodland) Waterfowl Nesting Habitat Marsh Breeding Bird Habitat (Green Heron) Butterfly Species of Conservation Concern Habitat 	No connection observed	Withi
106	No	0.22	278.2 m to unevaluated wetland beyond the Project Location	Reed Canary Grass	Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	Ne: Narrow-leaved Emergent	 Generalized Candidate Significant Wildlife Habitat Butterfly Species of Conservation Concern Habitat Large Yellow Pond Lily Habitat 	No surface connection observed	0 m
108	No	0.47	134.7 m to Wetland 26	Willow species, Reed Canary Grass	Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)/Willow Mineral Deciduous Thicket Swamp (SWTM3) Complex	Ts: Tall Shrubs Ne: Narrow-leaved Emergent	 Generalized Candidate Significant Wildlife Habitat 	No surface connection observed	0 m
26	Yes Boundary Revised	1.94	43.5 m to Wetland 31	Eastern White Cedar, Trembling Aspen, Broad-leaved Cattail	White Cedar Organic Coniferous Swamp (SWCO1-1)	H: Deciduous Trees C: Coniferous Trees Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat Reptile Hibernaculum Old Growth Forest Amphibian Breeding Habitat (Woodland) 	Connection by surface water to wetland 31	0 m
31	Yes Boundary Revised	1.99	11.3 m to unevaluated wetland beyond the Project Location	Eastern White Cedar, Broad-leaved Cattail	White Cedar Organic Coniferous Swamp (SWCO1-1) Cattail Mineral Meadow Marsh (MAMM1-2)	C: Coniferous Trees Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat Reptile Hibernaculum Old Growth Forest Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Red-headed Woodpecker Habitat 	Connection by ephemeral surface water to wetland 34	0 n



٥		Attri	ibutes	Com	position	1	Function		- Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
34	Yes Boundary Revised	5.41	26 m to Wetland 31	Eastern White Cedar, Trembling Aspen, Broad-leaved Cattail	White Cedar Organic Coniferous Swamp (SWCO1-1)	H: Deciduous Trees C: Coniferous Trees Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat Reptile Hibernaculum Old Growth Forest Amphibian Breeding Habitat (Woodland) 	Connection by ephemeral surface water to wetland 31	0 m
40	Yes Boundary Revised	4.24	25.9 m to Wetland 43	Trembling Aspen, Green Ash, Willow species, Eastern White Cedar, Swamp Maple, White Elm	Mineral Deciduous Swamp (SWDM4)	H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Tress	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Waterfowl Nesting Area Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Red-headed Woodpecker Habitat 	Connection by surface water to wetland 43	0 m
43	Yes Boundary Revised	6.92	25.9 m to Wetland 40	Trembling Aspen, Green Ash, Willow species, Eastern White Cedar, Swamp Maple, White Elm	Mineral Deciduous Swamp (SWDM4)	H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Tress	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Waterfowl Nesting Area Butterfly Species of Conservation Concern Habitat 	Connection by surface water to wetland 40	0 m
116	No	0.14	50.8 m to Wetland 40	Trembling Aspen, Green Ash, Willow species, Eastern White Cedar, Swamp Maple, White Elm	Mineral Deciduous Swamp (SWDM4)	H: Deciduous Trees Dh: Dead Deciduous C: Coniferous Tress	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Waterfowl Nesting Area 	Connection by surface water to wetland 40	0 n



۵		Attr	ibutes	Com	position		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
41	Yes Roblin Swamp Boundary Revised	250.46	8.2 m to an unevaluated wetland beyond Project location	Swamp Maple, Reed Canary Grass No access – assessed from roadside	Swamp Maple Mineral Deciduous Swamp (SWDM3-3) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent	 Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Waterfowl Nesting Area Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Old Growth Forest Woodland Raptor Nesting Habitat Marsh Breeding Bird Habitat (General; Green Heron) Red-headed Woodpecker Habitat Large Yellow Pond Lily Habitat 	Riverine wetland – hydrological connection to Salmon River and by association Pennell's Creek PSW and several unevaluated wetlands	Within
112	No	0.7	14.7 m to Wetland 41	Swamp Maple, Reed Canary Grass No access – assessed from roadside	Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Waterfowl Nesting Area 	Riverine wetland – hydrological connection to Salmon River and, by association, Pennell's Creek PSW and several unevaluated wetlands	15 m
44	Yes Boundary Revised	2.15	18.5 m to Wetland 45	Green Ash	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Wood Thrush Habitat 	Riverine – connected by Salmon River to Wetland 41 and 45	0 m
45	Yes Boundary Revised	13.4	7.4 m to Wetland 113	Green Ash	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Amphibian Breeding Habitat (Woodland) Wood Thrush Habitat 	Riverine – connected by Salmon River to Wetland 41 and 44	0 m
113	No	0.62	7.4 m to Wetland 45	Green Ash	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Amphibian Breeding Habitat (Woodland) Marsh Breeding Bird Habitat (Green Heron) Wood Thrush Habitat 	Palustrine – connected by seasonal surface water to Wetland 45	Within



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٩	Wetland	Attr	ibutes	Com	position		Function		Minimum
Wetland ID	Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
114	No	0.70	21.6 m to Wetland 115	Willow species, White Meadowsweet, Reed Canary Grass, Harlequin Blue Flag, Narrow-leaved Cattail, Fox Sedge, Canada Anemone, Marsh Marigold,	Reed Canary Grass Organic Meadow Marsh (MAMO1-3) Willow Organic Thicket Swamp (SWTO2)	H:Deciduous Trees Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	 Marsh Breeding Bird Habitat (General) 	Surface water connection to Wetland 115	Within
115	No	0.05	13.9 m to unevaluated wetland beyond the Project Location	Reed Canary Grass, Harlequin Blue Flag, Narrow-leaved Cattail, Fox Sedge, Canada Anemone, Marsh Marigold	Reed Canary Grass Organic Meadow Marsh (MAMO1-3)	Gc: Herbs Ne: Narrow-leaved Emergent Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat 	Surface water connection to Wetland 114	20 m
49	Yes Boundary Revised	3.38	274.4 m to Wetland 54	Broad-leaved Cattail	Cattail Mineral Meadow Marsh (MAMM1-2)	Re: Robust Emergent	 Amphibian Breeding Habitat (Woodland) Marsh Breeding Bird Habitat (General & Green Heron) Butterfly Species of Conservation Concern 	Ephemeral connection to Wetland 54, 61, 62, 118, 119	Within
118	No	0.83	12.2 m to Wetland 54	Willow species (<i>Salix</i> sp.)	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat 	Intermittent connection to Wetland 49, 54, 61, 62, 119	0 m
54	Yes Boundary Revised	3.56	12.2 m to Wetland 118	Broad-leaved Cattail	Cattail Mineral Meadow Marsh (MAMM1-2)	Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat 	Intermittent connection to Wetland 49,61, 62, 118, 119	0 m
119	No	0.47	49.8 m to Wetland 119	Broad-leaved Cattail	Cattail Mineral Meadow Marsh (MAMM1-2)	Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat 	Intermittent connection to Wetland 49, 54, 61, 62, 118	0 m
120	No	0.08	21.9 m to Wetland 61	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat 	No connection observed	0 m
61	Yes Boundary Revised	7.3	12.1 m to Wetland 62	Willow species (<i>Salix</i> sp.), Green Ash	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat 	Intermittent connection to Wetland 49, 54, 61, 118, 119	0 m
62	Yes Boundary Revised	3.04	12.1 m to Wetland 61	Willow species (<i>Salix</i> sp.), Green Ash	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat 	Intermittent connection to Wetland 49, 54, 61, 118, 119	0 m



₽		Attributes	Com	position		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ Distance to (hectares) Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
85	Yes Boundary Revised	92.2 7.3 m to Wetland 121	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Woodland Area-Sensitive Bird Breeding Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Connected by surface water to Wetland 77	0 m
77	Yes Boundary Revised	21.71 12.2 m to Wetland 85	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Amphibian Breeding Habitat (Woodland) Woodland Raptor Nesting Habitat Woodland Area-Sensitive Bird Breeding Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	No surface connection observed	0 m
78	Yes Boundary Revised	3.11 12.2 m to Wetland 83	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Amphibian Breeding Habitat (Woodland) Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Woodland Area-Sensitive Bird Breeding Habitat Old Growth Forest Red-headed Woodpecker Habitat Wood Thrush Habitat 	No surface connection observed	0 m



٥		Attri	ibutes	Con	nposition	1	Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
121	No	0.18	7.3 m to Wetland 85	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Old Growth Forest Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	No surface connection observed	Within
83	No	1.19	12.2 m to Wetland 78	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Old Growth Forest Red-headed Woodpecker Habitat Wood Thrush Habitat 	No surface connection observed	0 m
126	Yes Biddy's Lake PSW Boundary Revised	9.38	12.2 m to Wetland 94	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Amphibian Breeding Habitat (Woodland) Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Area-Sensitive Bird Breeding Habitat Old Growth Forest Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Connected by surface water to Wetland 94	0 m



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٩	Wetland	Attri	ibutes	Com	position		Function		Minimum
Wetland ID	Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
94	Yes Boundary Revised	80.63	12.2 m to Wetland 126	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2) Biddy's Lake PSW	H: Deciduous Trees Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Old Growth Forest Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat Amphibian Breeding Habitat (Woodland) 	Connected by surface water to Wetland 109	0 m
109	Yes Boundary Revised	0.52	12.3 m to Wetland 94	Green Ash, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2) Biddy's Lake PSW	H: Deciduous Trees Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Old Growth Forest Red-headed Woodpecker Habitat Wood Thrush Habitat 	Connected by surface water to Wetland 129	0 m
122	No	0.54	12.2 m to Wetland 123	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	No surface connection observed	0 m



Q		Attr	ibutes		Composition		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
123	No	1.57	12.2 to Wetland 122	Green Ash, Trembling Aspen, Swamp Maple	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	No surface connection observed	0 m
124	Yes Boundary Revised	0.23	9.8 m to unevaluated wetland beyond 50 m of Project Location	Swamp Maple	Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Riverine – connected to several other unevaluated wetlands up and downstream	Within
125	No	2.19	12.2 m to Wetland 73	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Old Growth Forest Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Amphibian Breeding Habitat (Woodland) Woodland Raptor Nesting Habitat Woodland Area-Sensitive Bird Breeding Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Intermittent connection to Wetland 71, 72, 75	0 m



₽		Attri	ibutes		Composition		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
71	Yes Boundary Revised	2.61	15.3 m to Wetland 72	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Intermittent connection to Wetland 72, 75, 125	0 m
72	Yes Boundary Revised	3.63	15.3 m to Wetland 71	Willow species, Green Ash, Swamp Maple	Willow Mineral Deciduous Thicket Swamp (SWTM3) Swamp Maple Mineral Deciduous Swamp (SWDM3-3)	H: Deciduous Trees Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Old Growth Forest Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Intermittent connection to Wetland 71, 75, 125	0 m
73	Yes Boundary Revised	1.73	12.2 m to Wetland 125	Green Ash, Trembling Aspen	Green Ash Mineral Deciduous Swamp (SWDM2-2)	H: Deciduous Trees	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	No surface connection observed	0 m



₽	Matley J	Attr	ibutes	Comj	position		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
75	Yes Boundary Revised	6.28	19.7 m to Wetland 125	Willow species	Willow Mineral Deciduous Thicket Swamp (SWTM3)	Ts: Tall Shrubs	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Trees & Shrubs) Old Growth Forest Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Intermittent connection to Wetland 72, 75, 125	0 m
88	Yes Pennell's Creek PSW Boundary Revised	185.55	39.7 m to unevaluated wetland beyond 50 m of the Project Location	Willow species, Green Ash, Swamp Maple, Reed Canary Grass	Green Ash Mineral Deciduous Swamp (SWDM2-2) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Tree Ne: Narrow-leaved Emergent	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Tree/Shrubs; Ground)) Waterfowl Nesting Area 	Riverine – connected to several other unevaluated wetlands up and downstream	0 m
86	Yes Boundary Revised	0.58	9.5 m to Wetland 117	Black Ash, Green Ash, Reed Canary Grass	Black Ash Mineral Deciduous Swamp (SWDM2-1) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Tree/Shrubs; Ground) Bald Eagle & Osprey Nesting, Foraging and Perching Habitat Amphibian Breeding Habitat (Woodland) Woodland Area-Sensitive Bird Breeding Habitat Waterfowl Nesting Area Woodland Raptor Nesting Habitat Red-headed Woodpecker Habitat Wood Thrush Habitat 	Riverine wetland – hydrological connection to Salmon River and by association Pennell's Creek PSW and several unevaluated wetlands	5 m
117	Yes Boundary Revised	0.08	9.5 m to Wetland 86	Reed Canary Grass	Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	Ne: Narrow-leaved Emergent	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Ground) Amphibian Breeding Habitat (Woodland) 	Riverine wetland – hydrological connection to Salmon River and by association Pennell's Creek PSW and several unevaluated wetlands	5 m



Q		Attr	ibutes	Com	position		Function		Minimum
Wetland ID	Wetland Identified During Records Review	Size ¹ (hectares)	Distance to Nearest Wetland Unit	Relevant Species	ELC Communities	Vegetation Forms	Associated Candidate Wildlife Habitat ²	Hydrologic Connection	Distance to Project Location
92	Yes Boundary Revised	1.9	172.2 m to Wetland 86	Black Ash, Green Ash, Reed Canary Grass, Northern Water-plantain (<i>Alisma triviale</i>), Slender Stinging Nettle (<i>Urtica dioica</i> ssp. gracilis), Smartweed species	Black Ash Mineral Deciduous Swamp (SWDM2-1) Reed Canary Grass Mineral Meadow Marsh (MAMM1-3)	H: Deciduous Trees Ne: Narrow-leaved Emergent Gc: Ground Cover	 Woodland Area-Sensitive Bird Breeding Habitat Waterfowl Nesting Area Wood Thrush Habitat Generalized Candidate Significant Wildlife Habitat Amphibian Breeding Habitat (Woodland) Marsh Breeding Bird Habitat (General & Green Heron) Colonially Nesting Bird Breeding Habitat (Tree/Shrubs) Waterfowl Nesting Area Bald Eagle & Osprey Nesting, Foraging and Perching Habitat 	Likely seasonal surface water connection to Wetland 88 (Pennell's Creek PSW)	Within
127	Yes Boundary Revised	0.86	2 m to an unevaluated wetland beyond Project Location	Green Ash, Swamp Maple, White Meadowsweet, Red-osier Dogwood, Willow species, Reed Canary Grass, Harlequin Blue Flag, Lake-bank Sedge, Hop Sedge, Tussock Sedge (<i>Carex stricta</i>), Fox Sedge, Marsh Fern, Marsh Horsetail, Water Loosestrife, Swamp Milkweed, Spotted-joe Pyeweed, Sensitive Fern, Canada Anemone	Reed Canary Grass Graminoid Organic Meadow Marsh (MAMO1-3) Organic Deciduous Thicket Swamp (SWTO5)	H: Deciduous Trees Ls: Low Shrubs Ne: Narrow-leaved Emergent Gc: Herbs	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Ground) Amphibian Breeding Habitat (Woodland) Waterfowl Nesting Area Wood Thrush Habitat 	Riverine wetland – hydrological connection to Salmon River and by association Pennell's Creek PSW and several unevaluated wetlands	0 m
96	Yes Boundary Revised	40.84	16.3 m to unevaluated wetland beyond 50 m of the Project Location	Broad-leaved Cattail, Green Ash, Swamp Maple	Cattail Mineral Meadow Marsh (MAMM1-2)	H: Deciduous Trees Re: Robust Emergent	 Generalized Candidate Significant Wildlife Habitat Colonially Nesting Bird Breeding Habitat (Ground) Amphibian Breeding Habitat (Woodland) Marsh Breeding Bird Habitat (general) Waterfowl Nesting Area Wood Thrush Habitat 	Riverine – connected by the Salmon River to other wetlands downstream	0 m

¹: Size of the wetland unit corresponds to the polygon delineated as part of this Project only and is not intended to represent the size of a previously identified provincially significant wetland complex. ²: The types of wildlife habitat listed in the "Associated Candidate Wildlife Habitat" column will be evaluated for significance in the *NHA Evaluation of Significance Report*". It should be noted that where associated candidate wildlife habitat is identified in association with a wetland unit, the area of wildlife habitat may extend beyond the boundaries of the delineated wetland. For more information about wildlife habitat, please refer to **Table 9** in **Section 7.2.4**.



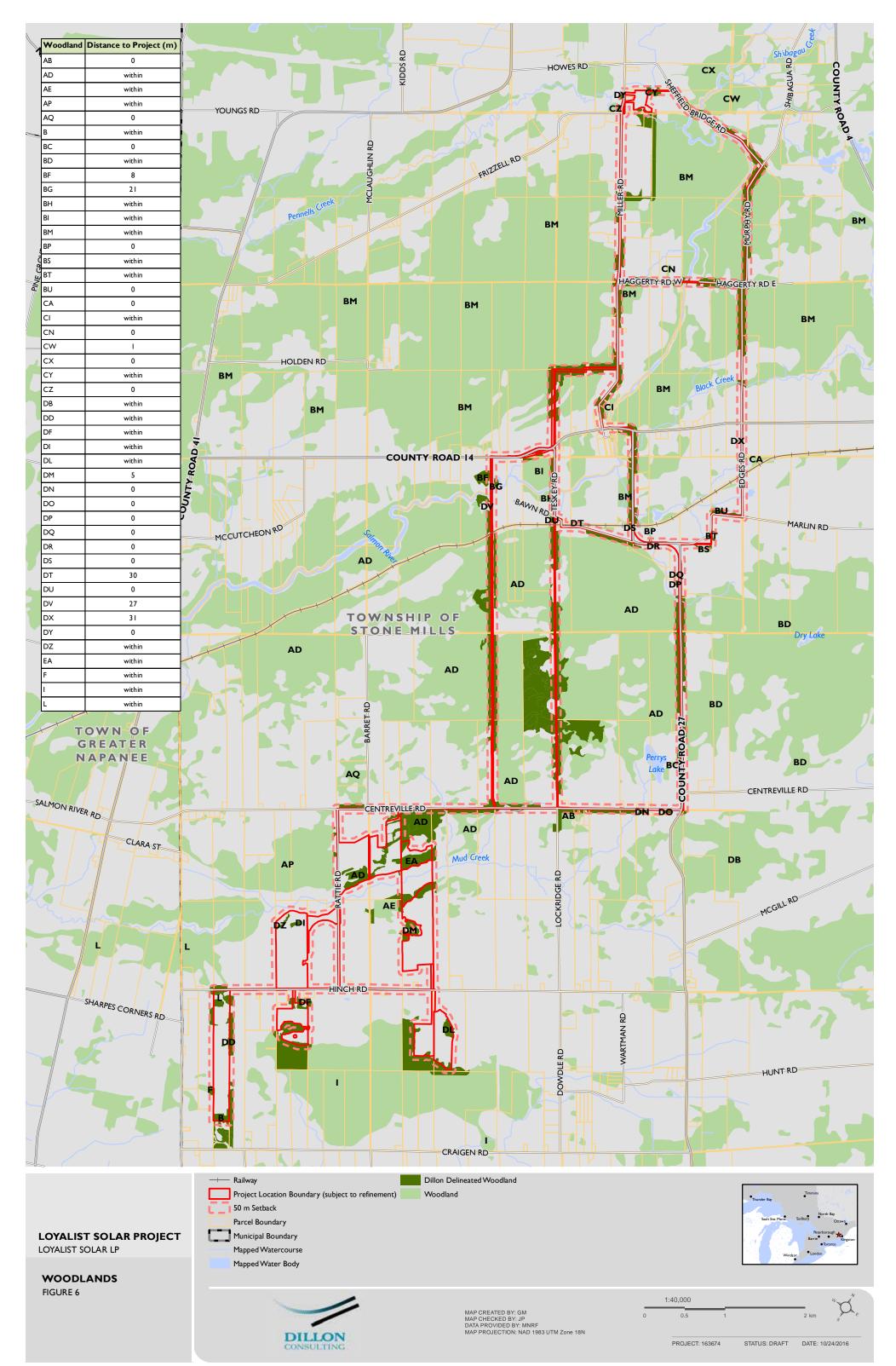
7.2.3 Woodlands

As detailed in the *NHA Records Review Report*, a search and analysis of the records and resources identified woodlands within the Project Location and within 50 m of the Project Location. The focus of the woodlands site investigation was to document the boundaries of woodland features identified during the records review (**Figure 3**) and to determine if additional woodland features were present.

The boundaries of all woodlands identified are shown on **Figure 6** as well as their respective nearest distance to the defined Project Location boundary (see table included on **Figure 6**). The boundaries depicted on **Figure 6** are the result of field investigations by qualified individuals (see **Table 4**) to delineate the dripline of woodlands applicable to the Project Location.

Table 8 also outlines the attributes, composition and function of the woodlands within the Project Location and/or surrounding 50 m confirms if the woodland was included in the records review or was identified as a result of site investigations. Supplementary mapping in support of the woodland description is available in *Appendix D, Figure D2*. This includes mapping of the full extent of the woodlands that occur within the Project Location and/or within 50 m of the Project Location and includes the area of woodland interior. Amendments to the *NHA Records Review* are outlined in **Section 8**.





			Attri	butes	1	Composition	1		Function	1
Woodland ID	ldentified During Records Review?	Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
AB	Yes Boundary Revised	14.16	0	0	0	This woodland area is composed of the following ELC communities; Dry-fresh Sugar Maple-Black Cherry Deciduous Forest Type (FODM5-7).	None	None	Woodland AB is adjacent to AD.	None Note: Woodland AB and AD are separated by a gap of > 20 m (Centreville Road) and are therefore considered separate woodlands.
AD	Yes Boundary Revised	1131.19	17.10	463.82	151.97	This woodland area is composed of the following ELC communities; Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Dry-Fresh White Cedar Coniferous Forest Ecosite (FOCM2-2); Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type (FOCS3-1); Swamp Maple Mineral Deciduous Swamp (SWDM3-3); Poplar Mineral Deciduous Swamp (SWDM4-5); White Cedar Organic Coniferous Swamp (SWDO1-1); Swamp Maple Organic Deciduous Swamp (SWDO2-3); Mineral Deciduous Swamp Ecosite (SWDM4); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2); Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type (FODM5-4); Green Ash Mineral Deciduous Swamp (SWDM2-2); Dry-Fresh White Ash-Hardwood Deciduous Forest Type (FODM5-4); Dry-Fresh White Ash-Hardwood Deciduous Forest Type (FODM4-2); Dry-Fresh White Cedar-Hardwood Mixed Forest Type (FODM4-4); Dry-Fresh White Cedar-Hardwood Mixed Forest Type (FOMM4-3); Dry-fresh Red Cedar Coniferous Forest Type (FOCM2-1).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	Woodland is adjacent to: Perry's Lake; Salmon River Tributary; Mud Creek PSW; and Roblin Swamp.	Woodland AD is large and provides direct connectivity to multiple Woodlands as well as Mud Creek PSW and Roblin's Swamp.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: less than 20 m gap in canopy occurs where the woodland is bisected by Centreville Road and railways.
AE	Yes	21.59	3.28	0.05	0	This woodland area is composed of the following ELC communities; Swamp Maple Organic Deciduous Swamp (SWDO2-3); Fresh-moist Oak- Maple-Hickory Deciduous Forest (FODM9); Green Ash Mineral Deciduous Swamp (SWDM2-2); Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1);	Woodland contains unevaluated wetland. Woodland contains Dillon delineated wetland. Woodland is directly adjacent to Mud Creek PSW.	As shown on Figure 6, the PSW (Mud Creek Swamp) that borders the northern edge of the Woodland may provide fish habitat.	Woodland AE is adjacent to DM.	None
АР	Yes	83.92	0.03	34.25	10.27	This woodland area is composed of the following ELC communities; Dry-Fresh Poplar Mixed Forest Type (FOMM5-2).	Woodland is adjacent to Mud Creek PSW.	As shown on Figure 6, the PSW (Mud Creek PSW) that borders the southern edge of the Woodland may provide fish habitat.	Woodland AP is large and provides direct connectivity to other woodlands to west as well as the Mud Creek PSW.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds.



			Attrik	outes	[Composition	1	 	Function	
Woodland ID	Identified During Records Review?	Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
AQ	Yes	15.31	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Poplar Mixed Forest Type (FOMM5-2).	None	None	None	None Note: Woodland AP and AQ are separated by a gap of > 20 m (Centreville Road) and are therefore considered separate woodlands.
В	Yes Boundary Revised	10.38	6.54	0	0	This woodland area is composed of the following ELC communities: Dry-Fresh Oak-Hardwood Non-calcareous Shallow Deciduous Forest Ecosite (FODR2); Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type (FOCS3-1); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	Woodland contains Dillon delineated wetland.	None	None	None
BC	Yes Boundary Revised	2.34	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland is adjacent to Perry's Lake.	As shown on Figure 6, the Woodland is adjacent to Perrys Lake which may provide fish habitat.	Woodland BC is adjacent to Woodland BD (separated by County Road 27)& AD.	None Note: Woodland BC and BD as well as AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
BD	Yes Boundary Revised	539.45	3.15	247.84	96.44	This woodland area is composed of the following ELC communities; White Cedar Organic Coniferous Swamp (SWCO1-1); Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Mineral Deciduous Swamp Ecosite (SWDM4).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineatde wetland. Woodland contains Dry Lake	As shown on Figure 6, the Woodland contains Dry Lake as well as a Salmon River Tributary which may provide fish habitat.	Woodland BD is adjacent to Woodland AD, separated by County Road 27.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland BD And AD are separated by a gap of > 20 m (County Road 27) and are therefore considered separate woodlands.
BF	Yes; Boundary Revised	2.63	0	0	0	This woodland is comprised of the following ELC communities; Swamp Maple Mineral Deciduous Swamp (SWDM3-3).	Woodland contains unevaluated wetlands. Woodland is adjacent to Salmon River.	As shown on Figure 6 , the Woodland is adjacent to the Salmon River.	Woodland BF is adjacent Woodland BG.	Note: Woodland BF and BG are separated by a gap of > 20 m and are therefore considered separate woodlands.
BG	Yes	0.07	0	0	0	This woodland area is composed of the following ELC communities; Swamp Maple Mineral Deciduous Swamp (SWDM3-3).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland. Woodland is adjacent to Roblin Swamp.	As shown on Figure 6 , the Woodland is adjacent to the Salmon River.	Woodland BG provides direct connectivity to multiple Woodlands.	Note: Woodland BG and DV are separated by a gap of > 20 m and are therefore considered separate woodlands.



			Attril	outes	[Composition		 	Function	
Woodland ID	Identified During Records Review?	Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
вн	Yes	3.88	0.47	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6, the Woodland borders the Salmon River which provides fish habitat.	Woodland is adjacent to Bl.	Note: Woodland BH and BI are separated by a gap of > 20 m (Salmon River) and are therefore considered separate woodlands.
BI	YES	15.08	0.47	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6, the Woodland borders Salmon River which provides fish habitat.	Woodland is adjacent to BH.	Note: Woodland BH and BI are separated by a gap of > 20 m (Salmon River) and are therefore considered separate woodlands.
BM	Yes Boundary Revised	1774.24	5.01	893.57	498.88	This woodland area is composed of the following ELC communities; Dry-Fresh White Pine-Hardwood Mixed Forest Type (FOMM2-3); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2); Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Dry-Fresh White Cedar-Hardwood Mixed Forest Type (FOMM4-3); Dry-Fresh Ironwood Deciduous Forest Type (FODM4-4); Dry-Fresh White Cedar Coniferous Forest Ecosite (FOCM2-2); Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1); Green Ash Mineral Deciduous Swamp (SWDM2-2); Fresh-moist Poplar Deciduous Forest (FODM8-1); Swamp Maple Mineral Deciduous Swamp (SWDM3-3); Coniferous Forest (FOC); Dry-Fresh Sugar Maple-Beech Deciduous Forest Type (FODM5-2); Dry-Fresh White Ash-Hardwood Deciduous Forest Type (FODM4-2); Fresh - Moist Lowland Deciduous Forest (FODM7).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland. Woodland is adjacent to Pennell's Creek PSW and Biddy's Lake PSW.	As shown on Figure 6 , the woodland is directly associated with (i.e., the river and creek run through the woodland) both the Salmon River and Black Creek. Woodland is adjacent to Pennell's Creek PSW and Biddy's Lake PSW.	None	Note: Woodland BM and CN, CI as well as DS are separated by a gap of > 20 m and are therefore considered separate woodlands. Note: less than 20 m gaps in the canopy occur where the woodland is bisected by Miller Road, Murphy Road, Sheffield Bridge Road, Haggerty Road East and West, and Edges Road.
BP	Yes	0.81	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat.	Woodland is adjacent to AD, DR & DS.	Note: Woodland BP and AD, DR as well as DS are separated by a gap of > 20 m (Country Road 27)and are therefore considered separate woodlands.
BS	Yes	1.29	0.03	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains Dillon delineated wetland. Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat.	Woodland is adjacent to BT.	Note: Woodland BS and BT are separated by a gap of > 20 m and are therefore considered separate woodlands.

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			Attril	butes	r	Composition			Function	1
Woodland ID	Identified During Records Review?	Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
ВТ	Yes	0.53	0.04	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat.	Woodland is adjacent to BS.	Note: Woodland BS and BT are separated by a gap of > 20 m and are therefore considered separate woodlands.
BU	Yes	1.65	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse that is within 30m of the Salmon River Tributary may provide fish habitat.	None	None
CA	Yes	2.63	0	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse that is within 30m of the Salmon River Tributary may provide fish habitat.	None	None
CI	Yes	4.21	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) that borders the woodland may provide fish habitat.	Woodland is adjacent to BM	Note: Woodland CI and BM are separated by a gap of > 20 m (Salmon River) and are therefore considered separate woodlands.
CN	Yes	0.89	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	None	Woodland is adjacent to Woodland BM.	Note: Woodland CN and BM are separated by a gap of > 20 m (Haggerty Road) and are therefore considered separate woodlands.
CW	Yes	38.21	0.18	7.85	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse that bisects the Woodland (Shibagu Creek) may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW Biddy's Lake PSW. Woodland is adjacent to Woodland CX.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland CX and CW are separated by a gap of > 20 m and are therefore considered separate woodlands.
СХ	Yes	72.95	0.02	4.17	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	As shown on Figure 6 , the watercourse that bisects the Woodland (Shibagau Creek) may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW and Biddy's Lake PSW. Woodland is adjacent to Woodland CW.	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland CX and CW are separated by a gap of > 20 m and are therefore considered separate woodlands.



			Attri	butes		Composition			Function	1
Woodland ID	Identified During Records Review?	Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
СҮ	Yes	1.49	0.38	0	0	This woodland area is composed of the following ELC communities; Black Ash Mineral Deciduous Swamp (SWDM2-1).	Woodland contains Dillon delineated wetland. Woodland is adjacent to the Pennell's Creek PSW.	As shown on Figure 6 , the watercourse that bisects the Woodland (Pennell's Creek) may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW.	None
CZ	Yes	1.57	0	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2)	Woodland contains unevaluated wetlands. Woodland contains Dillon delineated wetland. Woodland is adjacent to the Pennell's Creek PSW.	As shown on Figure 6 , the watercourse (Pennell's Creek) borders the north, south and west edges of the woodland may provide fish habitat	Woodland provides linkages to Pennell's Creek PSW.	None
DB	Yes	101.41	0.02	32.81	9.37	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	None	None	Interior habitat is present tha may provide breeding habita for area sensitive forest birds
DD	No	3.86	1.20	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	None	None	None
DF	No	2.64	1.12	0	0	This woodland area is composed of the following ELC communities; Fresh-moist White Cedar Coniferous Forest Ecosite (FOCM4).	None	None	None	None
DI	No	0.62	0.62	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Poplar Mixed Forest Type (FOMM5-2).	None	None	Woodland provides a linkage to Mud Creek PSW. Woodland provides a linkage to Hinch Swamp Complex.	None
DL	No	2.15	2.04	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh White Pine-Hardwood Mixed Forest Type (FOMM2-3); Dry-Fresh Poplar Deciduous Forest Type (FODM3-1).	None	None	Woodland can provide indirect connectivity to Hinch Swamp PSW.	None
DM	No	3.06	2.85	0	0	This woodland area is composed of the following ELC communities; Green Ash Mineral Deciduous Swamp (SWDM2-2).	Woodland contains Dillon delineated wetland.	None	Woodland provides a linkage to Mud Creek PSW.	None
DN	No	0.54	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1).	None	Woodland are adjacent to Mud Creek tributary and Perrys Lake.	Woodland is adjacent to DO.	Bound on north by Centrevill Road.

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			Attrib	outes		Composition			Function	1
Woodland ID	ldentified During Records Review?	Size (ha)*	Hectares within Project Location	Interior Woodland**	(ha) Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
DO	No	0.55	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1).	None	None	Woodland is adjacent to DN	Bound on north by Centreville Road.
DP	No	0.30	0	0	0	This woodland area is composed of the following ELC communities; Fresh-Moist White Cedar Coniferous Forest Type (FOCM4-1).	Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse (Salmon River Tributary) borders the west edges of the woodland may provide fish habitat	Woodland is adjacent to DQ	Note: Woodland DP and DQ are separated by a gap of > 20 m and are therefore considered separate woodlands.
DQ	No	0.14	0	0	0	This woodland area is composed of the following ELC communities; Mineral Deciduous Swamp Ecosite (SWDM4).	Woodland contains Dillon delineated wetland.	As shown on Figure 6 , the watercourse (Salmon River Tributary) borders the west edges of the woodland may provide fish habitat	Woodland is adjacent to DP	Note: Woodland DP and DQ are separated by a gap of > 20 m and are therefore considered separate woodlands.
DR	No	0.25	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) that bisects the woodland may provide fish habitat	Woodland is adjacent to AD	Note: Woodland DR and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
DS	No	0.19	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh White Pine-Hardwood Mixed Forest Type (FOMM2-3).	None	None	Woodland is adjacent to BM & AD.	Note: Woodland DR and AD as well as BM are separated by a gap of > 20 m and are therefore considered separate woodlands.
DT	No	0.30	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	None	Woodland is adjacent to AD	Note: Woodland DT and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
DU	No	0.44	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	As shown on Figure 6 , the watercourse (Salmon River Tributary) is adjacent to the woodland may provide fish habitat	Woodland is adjacent to AD	Note: Woodland DU and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.



			Attrik	outes		Composition			Function	
Woodland ID	Identified During Records Review?	Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat ⁺ (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
DV	No	0.05	0	0	0	This woodland area is composed of the following ELC communities; Swamp Maple Mineral Deciduous Swamp (SWDM3-3).	Woodland is adjacent to Roblin Swamp PSW. Woodland contains Dillon delineated wetland. Woodland contains unevaluated wetlands.	As shown on Figure 6 , this woodland is situated adjacent to the Salmon River which provides fish habitat	Woodland is adjacent of AD	Note: Woodland DV and AD are separated by a gap of > 20 m and are therefore considered separate woodlands.
DX	No	0.05	0	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Red Cedar Coniferous Woodland (WOCM1-1).	None	None	None	None
DY	No	0.33	0	0	0	This woodland area is composed of the following ELC communities; Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	Woodland is adjacent to Pennell's Creek PSW. Woodland contains Dillon delineated wetland. Woodland contains unevaluated wetlands.	As shown on Figure 6 , the watercourse (Pennell's Creek) that borders the woodland may provide fish habitat	Woodland is adjacent to CZ	Note: Woodland DY and CZ are separated by a gap of > 20 m and are therefore considered separate woodlands.
DZ	No	0.69	0.69	0	0	This woodland area is comprised of the following ELC communities; Dry – Fresh Sugar Maple – Hardwood Calcareous Shallow Deciduous Forest Type (FODR1-1)	Woodland is adjacent to Mud Creek PSW.	As shown on Figure 6 , the watercourse (Mud Creek) that is adjacent to the woodland may provide fish habitat.	Woodland is adjacent Woodland Dl.	Note: Woodland DZ and DI are separated by a gap >20 m and are therefore considered separate woodlands.
EA	No	7.24	6.26	0	0	This woodland area is compromised of the following ELC communities; Dry-Fresh Ironwood Deciduous Forest (FODR1-1), Dry-Fresh White Cedar-Hardwood Mixed Forest Type (FOMM4-3).	Woodland is adjacent to Mud Creek PSW.	As shown on Figure 6 , the watercourse (Mud Creek) that is adjacent to the woodland may provide fish habitat.	Woodland is adjacent to AD.	Note: Woodland EA and AD are separated by a gap >20 m and are therefore considered separate woodlands.
F	Yes Boundary Revised	1.73	0.15	0	0	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5).	None	None	None	None
L	Yes Boundary Revised	132.37	2.73	29.31	1.58	This woodland area is composed of the following ELC communities; Dry-Fresh Sugar Maple Deciduous Forest Ecosite (FODM5); Dry-Fresh Ironwood Deciduous Forest Type (FODM4-4); Dry-Fresh White Cedar Calcareous Bedrock Coniferous Forest Type (FOCS3-1); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2).	None	As shown on Figure 6, the PSW (Mud Creek) may provide fish habitat.	None	Interior habitat is present that may provide breeding habitat for area sensitive forest birds.

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	Identified During Records Review?		Attributes			Composition	Function			
Woodland ID		Size (ha)*	Hectares within Project Location	Interior Woodland** (ha)	Interior Habitat† (ha)	Woodland Diversity including Vegetative Communities and Species Present	Contains or is Adjacent to Sensitive Features	Contains or Adjacent to Known Natural Features, Fish Habitat, Source Water Protection Area	Linkage Function	Other
I	Yes Boundary Revised	261.96	8.14	167.79	98.47	This woodland area is composed of the following ELC communities; Swamp Maple Organic Deciduous Swamp (SWDO2-3); Fresh-moist Oak-Maple-Hickory Deciduous Forest (FODM9); Fresh-moist Green Ash-Hardwood Lowland Deciduous Forest (FODM7-2); Fresh-moist Poplar Deciduous Forest (FODM8-1); Dry-Fresh White Cedar Coniferous Forest Ecosite (FOCM2-2).	Hinch Swamp Provincially Significant Wetland (PSW) Complex Woodland contains Dillon delineated wetland.	As shown on Figure 6, the PSW (Hinch Swamp) may provide fish habitat.	Woodland I is large and provides direct connectivity to multiple Woodlands	Interior habitat is present that may provide breeding habitat for area sensitive forest birds. Note: Woodland I & J were originally mapped as separate woodland. However, field investigations determined the woodlot was continuous.

*Size refers to the total size of the woodland area;

**Interior woodland begins 100 m from the woodland edge;

†Interior habitat begins 200 m from the woodland edge. (See Supplemental Woodland mapping in *Appendix D, Figure D2*).

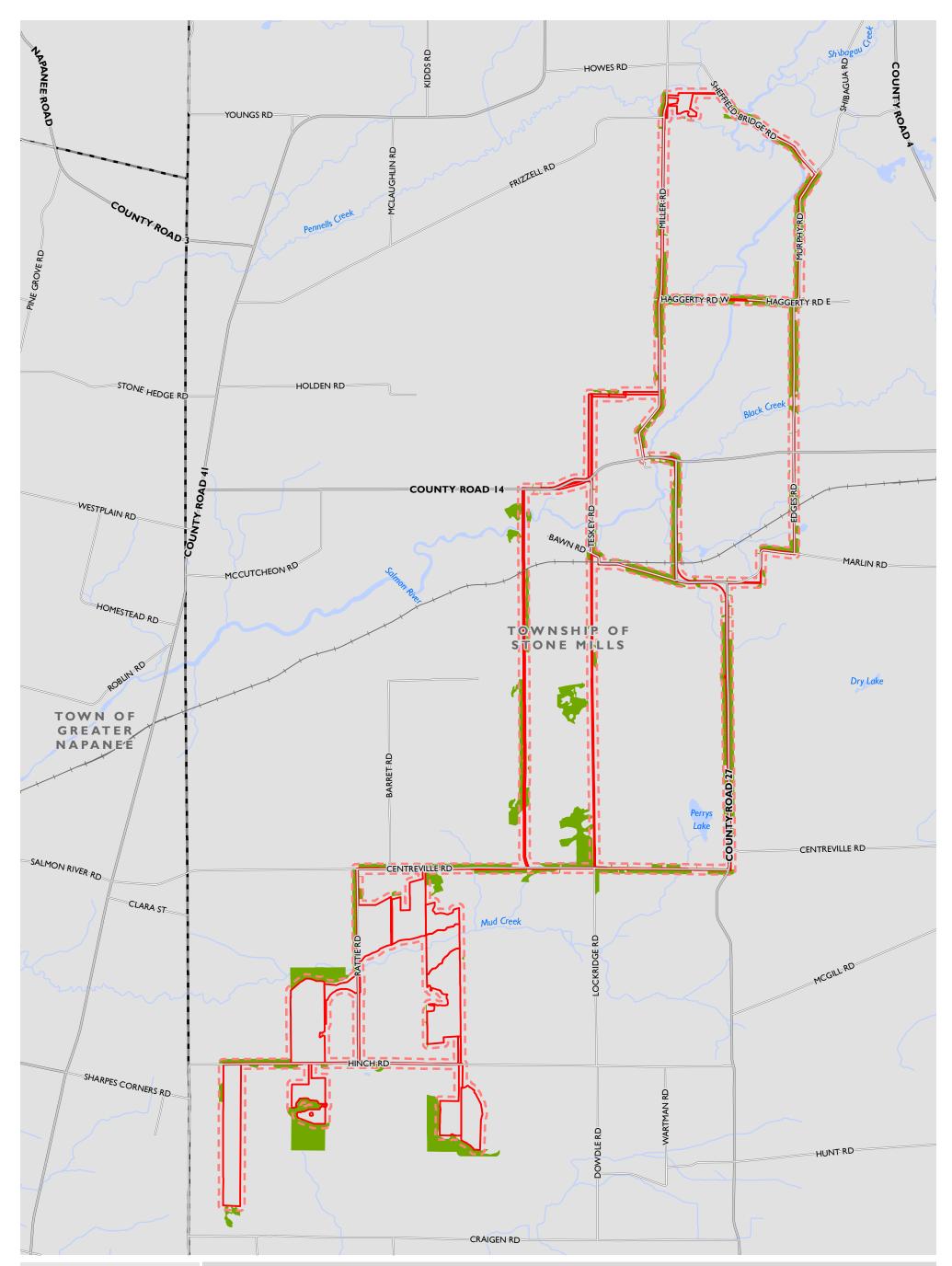


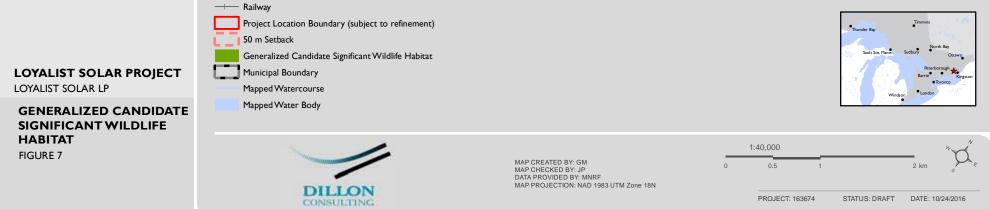
7.2.4 Wildlife Habitat

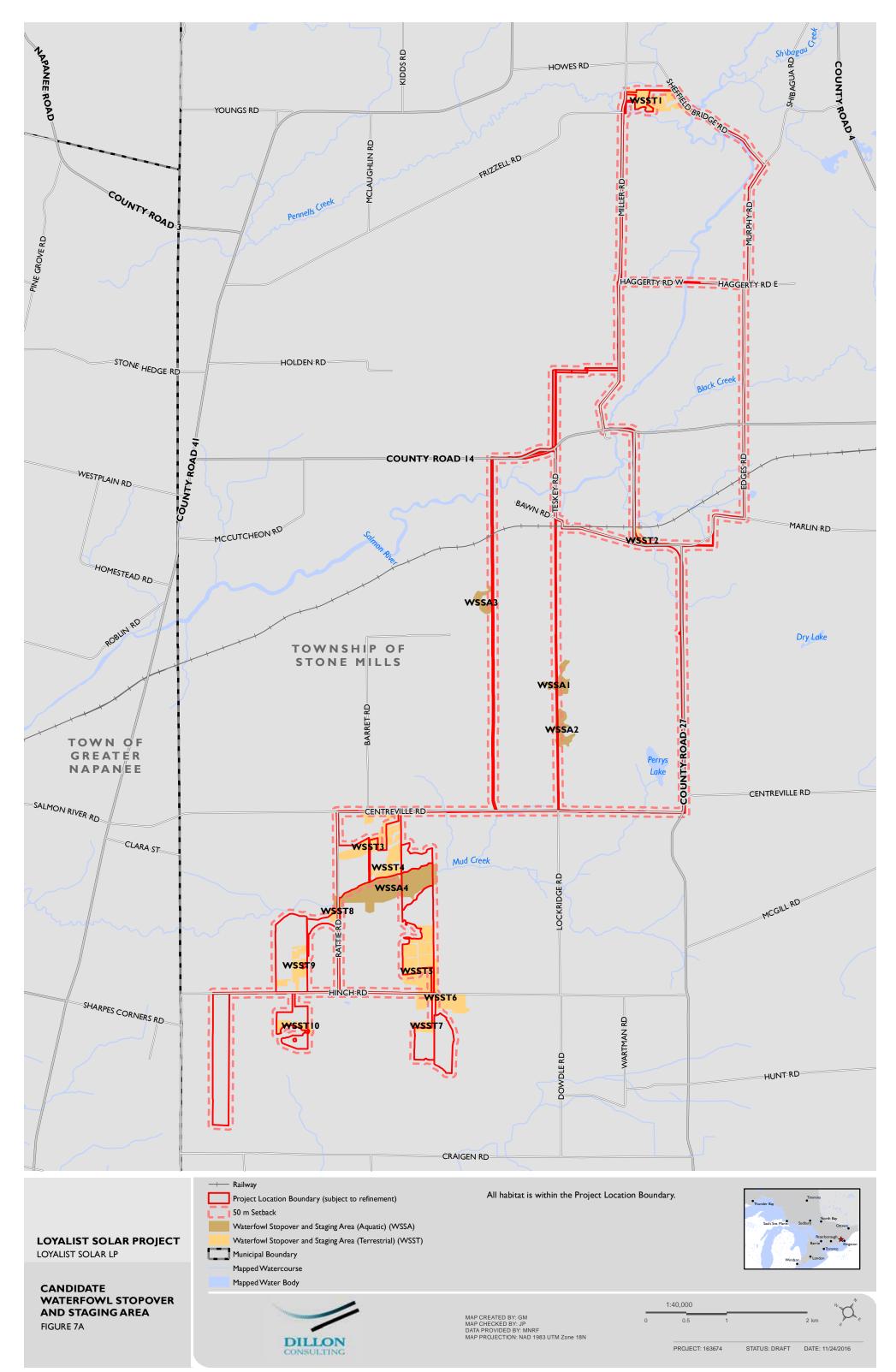
An overall review of known wildlife habitat that has been identified in the area of the Project Location was completed in the *NHA Records Review Report*. The records review information has been augmented by the results of the site investigation work. The information collected during the site investigation was assessed in consideration of the habitat criteria outlined in Sections 4 to 7 and Appendix M, N, and Q of the Significant Wildlife Habitat Technical Guide (MNRF 2000) and associated Ecoregion Criteria Schedule for wildlife habitat applicable to Ecoregion 6E (MNRF 2015). First approximation ELC community information was used to identify candidate wildlife habitat as outlined in the Ecoregion 6E Criteria Schedule (MNRF 2015). Based on this information and other characteristics of various wildlife habitat types, candidate significant wildlife habitat in the area surrounding the Project Location was identified. For rare vegetation communities that are under consideration as candidate wildlife habitat type. For example, coniferous forests (ELC first approximation description of FOC) are to be reviewed for consideration as candidate alvars. **Table 9** outlines wildlife habitat applicable to Ecoregion 6E and summarizes if it is relevant to the Project Location and/or adjacent area(s). The boundaries and location of each candidate significant wildlife habitat is described in **Table 9** and mapped on **Figures 7A- 7W**.

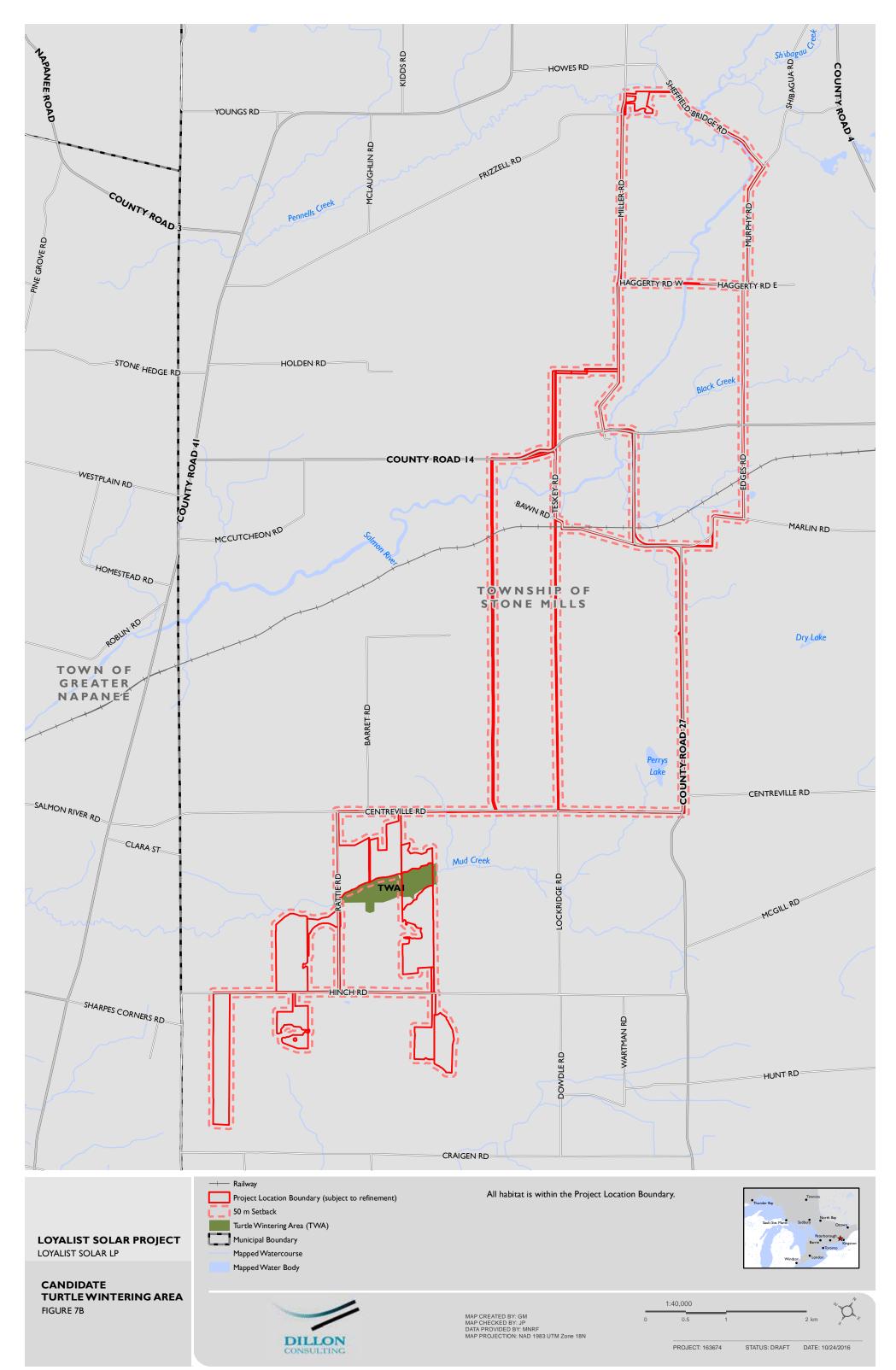
Species of Conservation Concern were identified according to the definition provided in the Significant Wildlife Habitat Technical Guide (MNRF 2000). Species of Conservation Concern with the potential to occur in the general area of the Project Location are discussed in **Table 9** below. Where appropriate, they are discussed in the relevant wildlife habitat type. Reporting related to the protection of Ontario's *Endangered* and *Threatened* Species at Risk is being provided to the appropriate regulatory agency under separate cover.

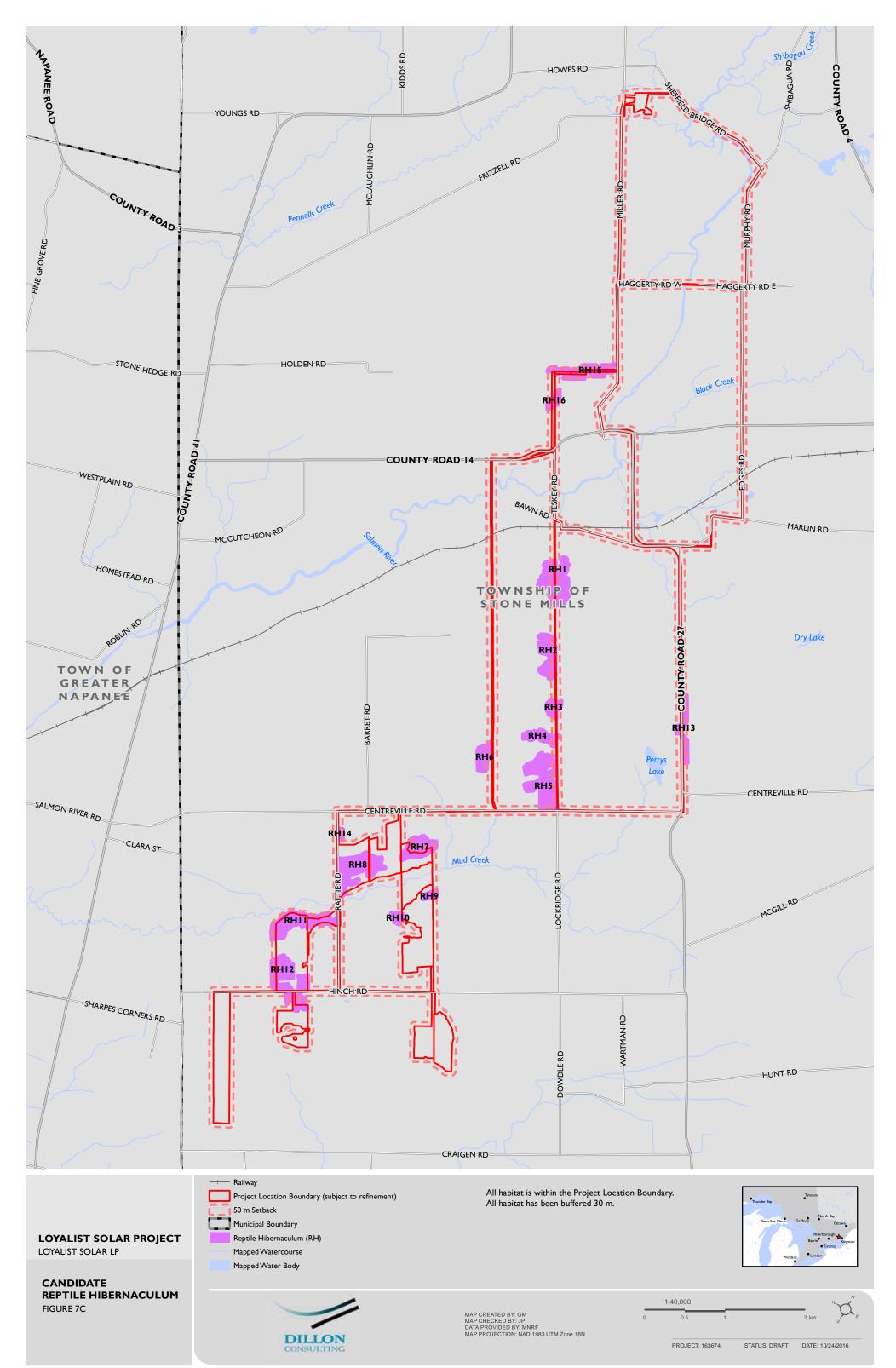


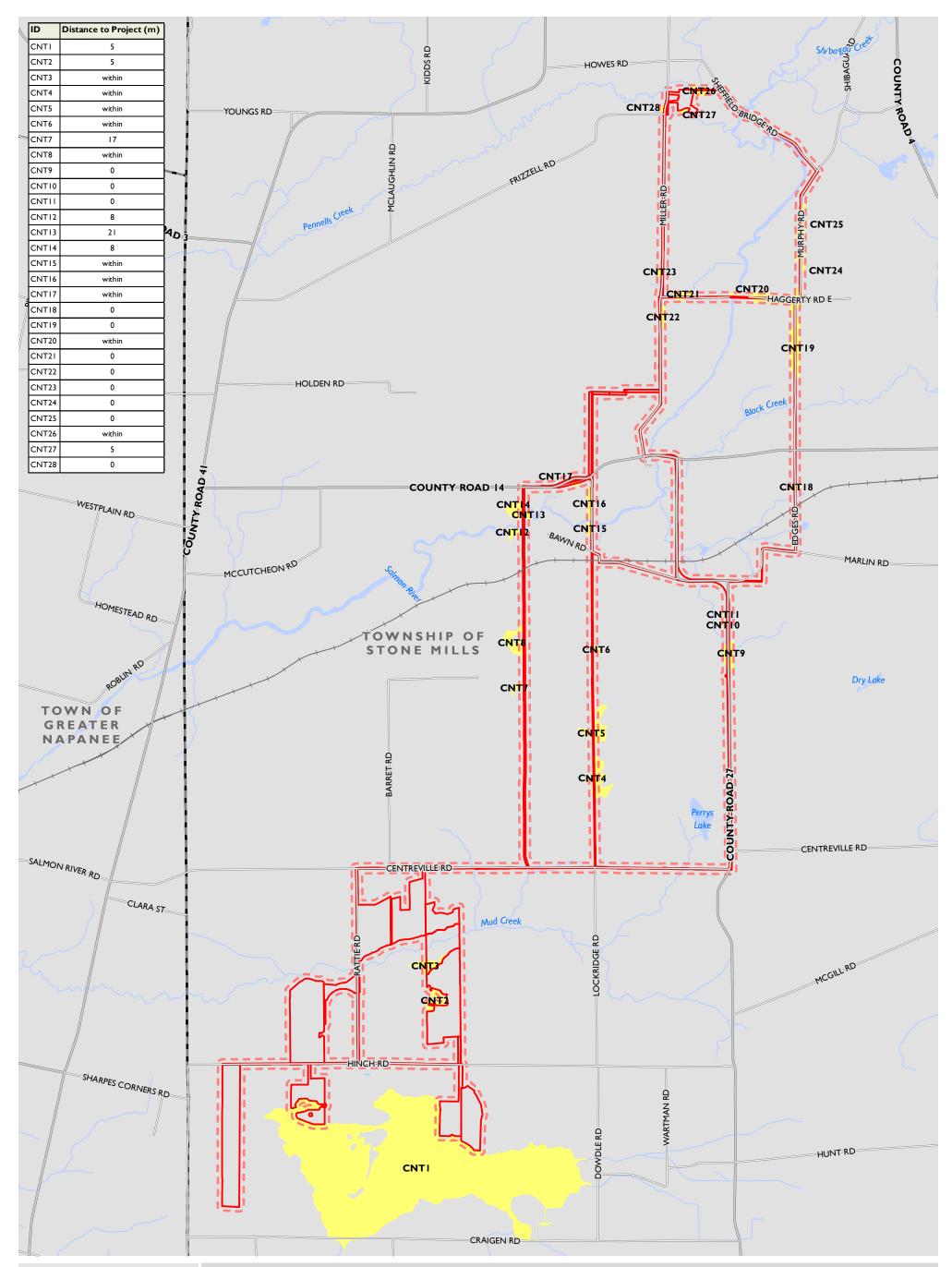


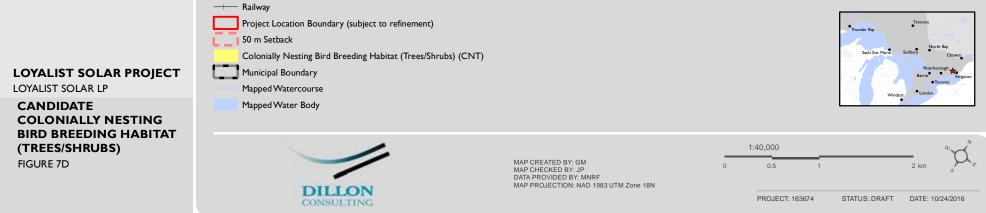




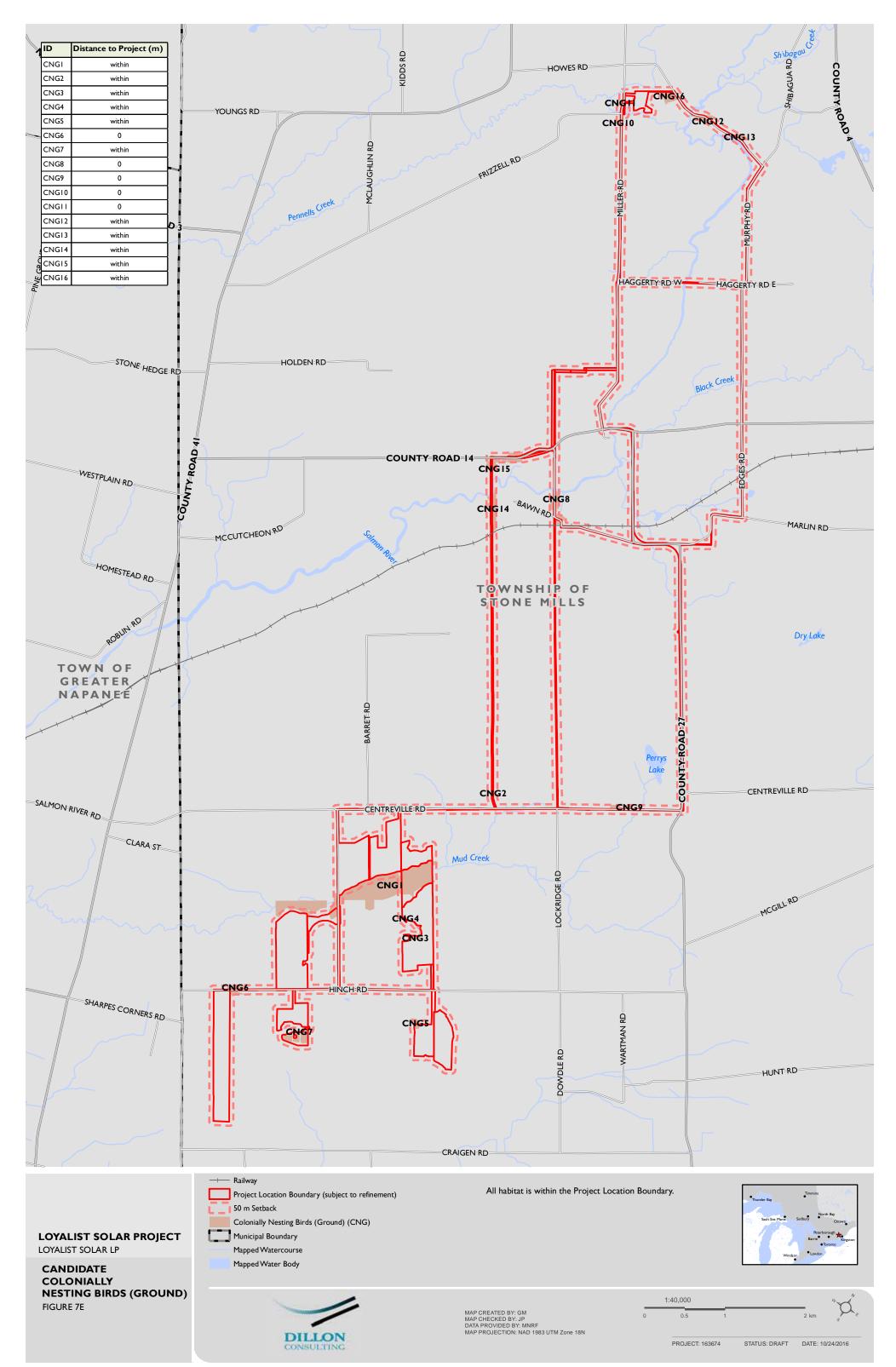


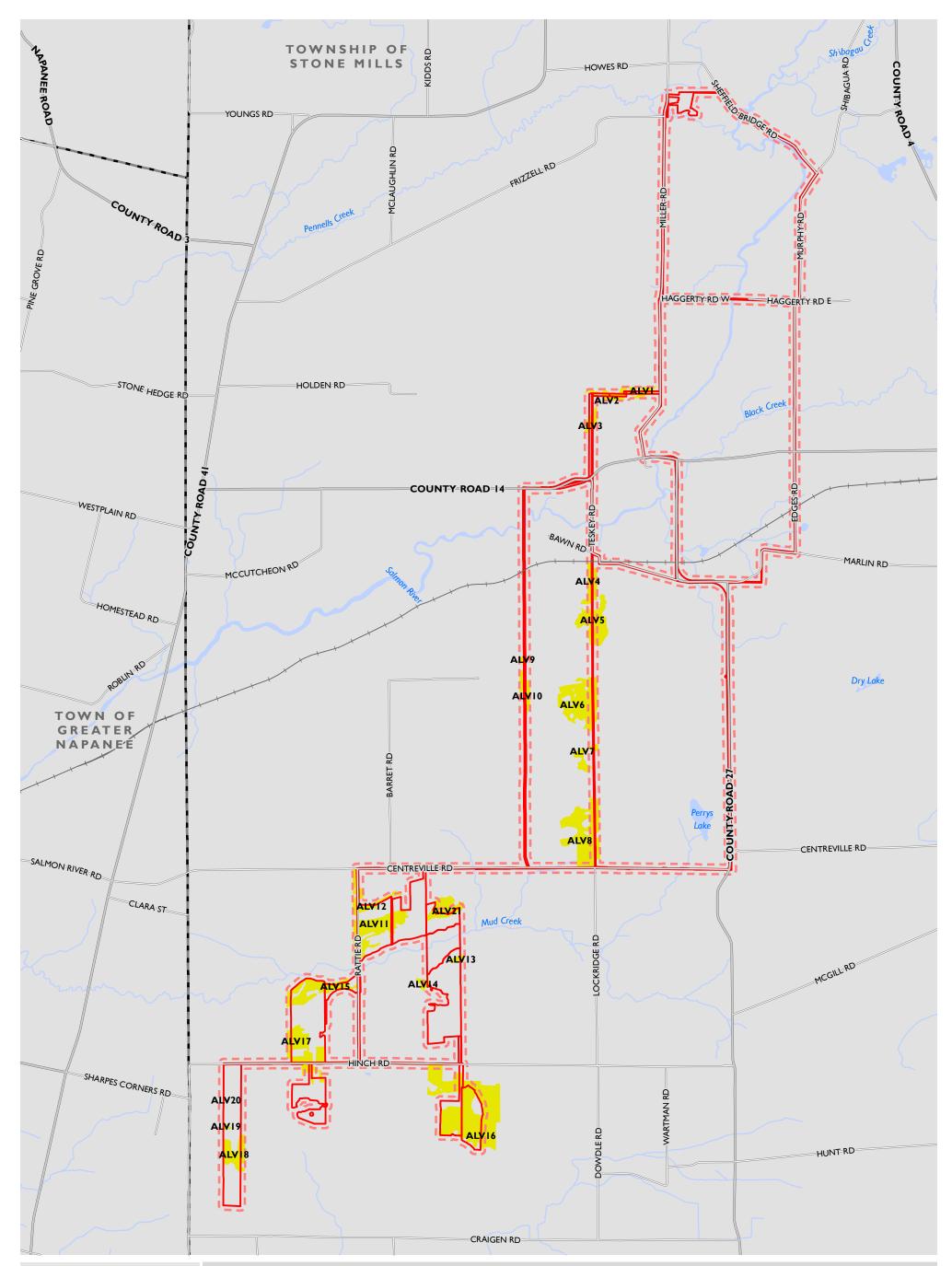


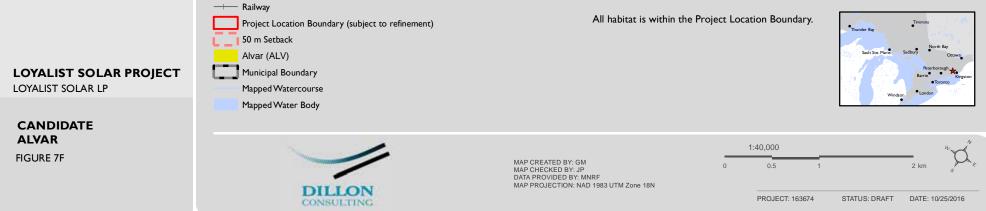


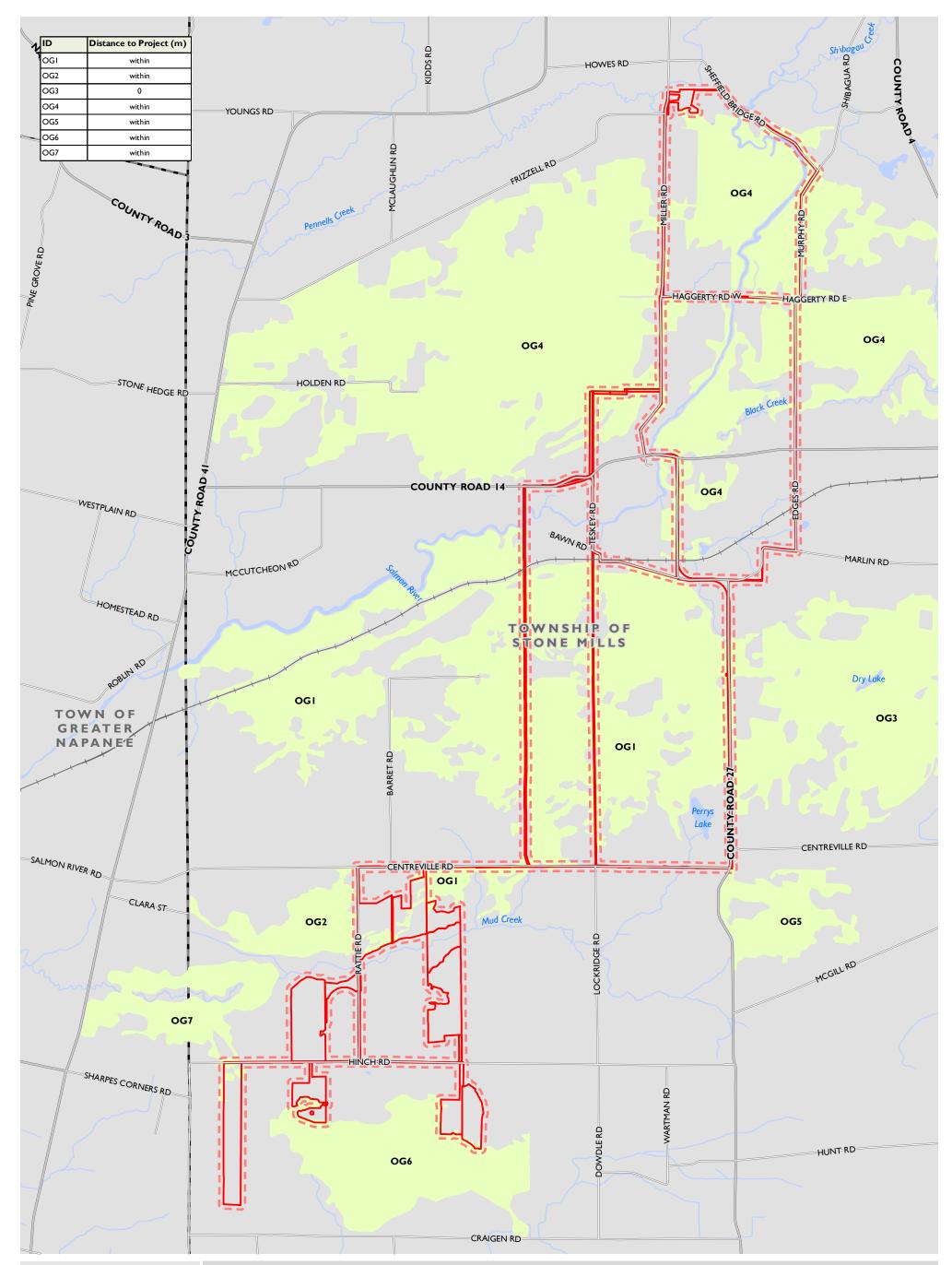


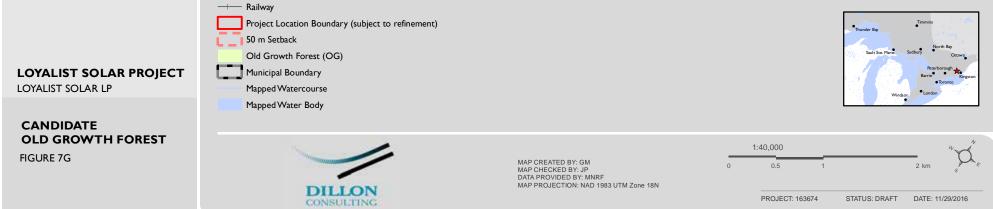
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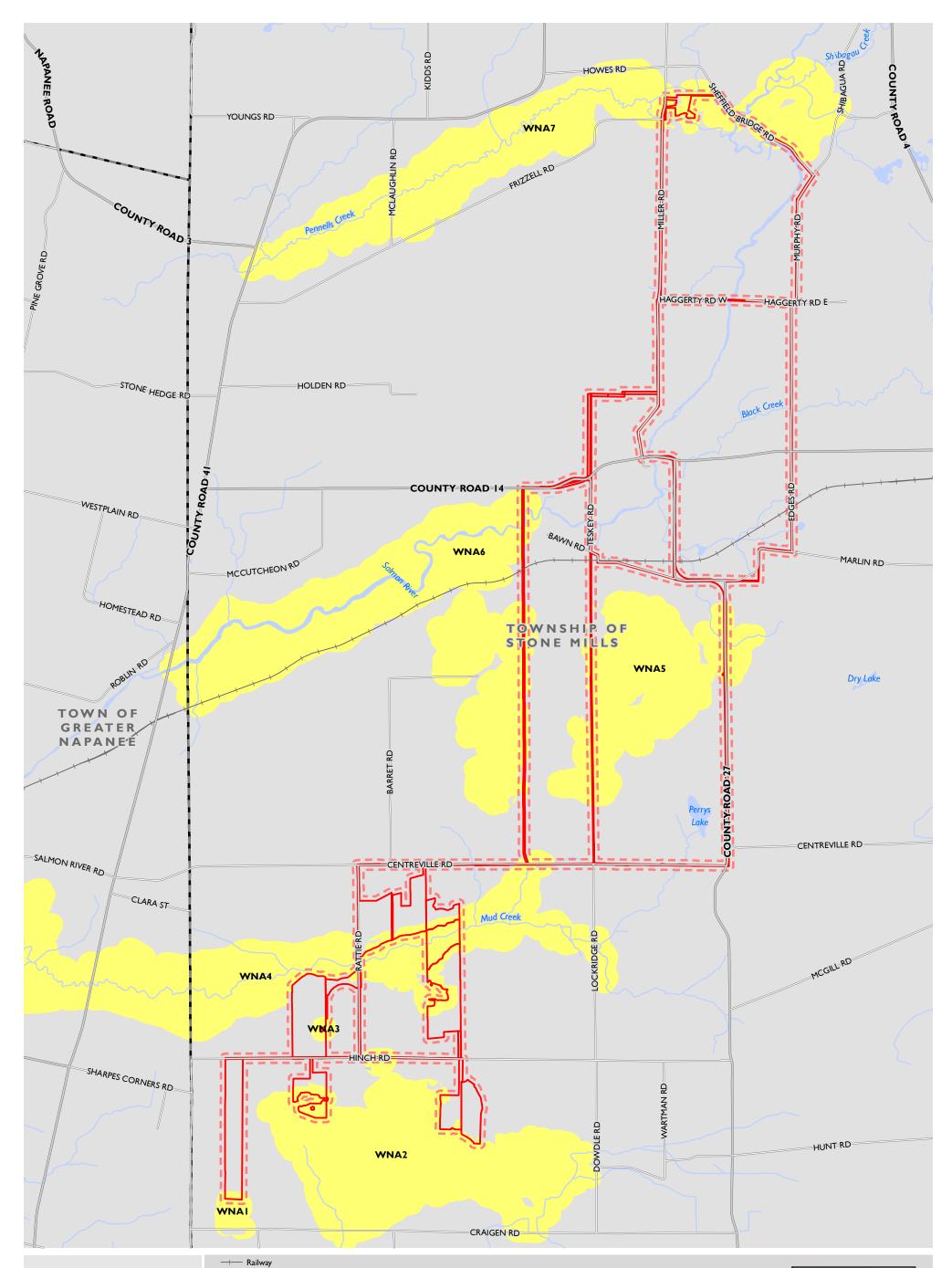














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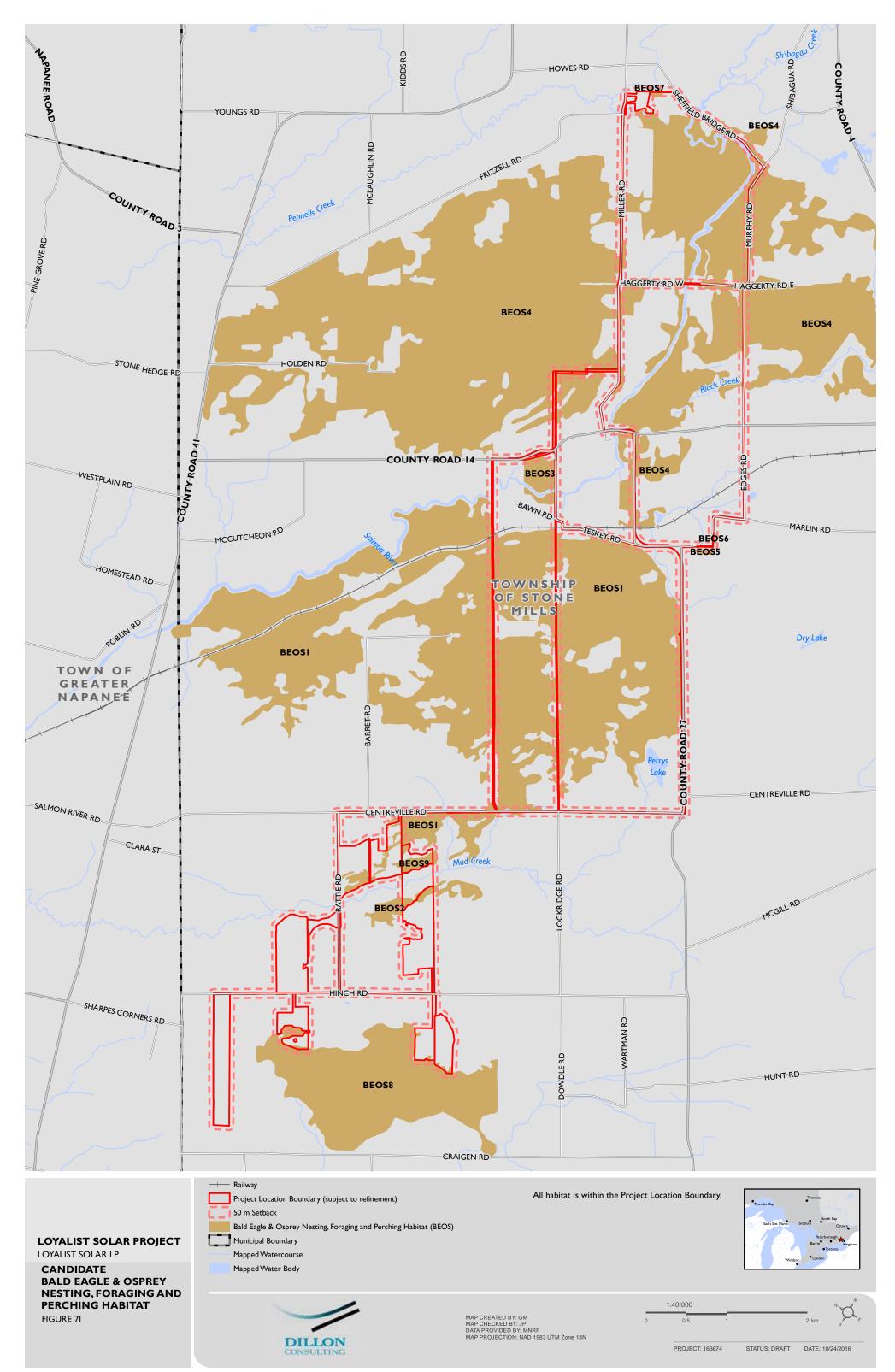
CONSULTING

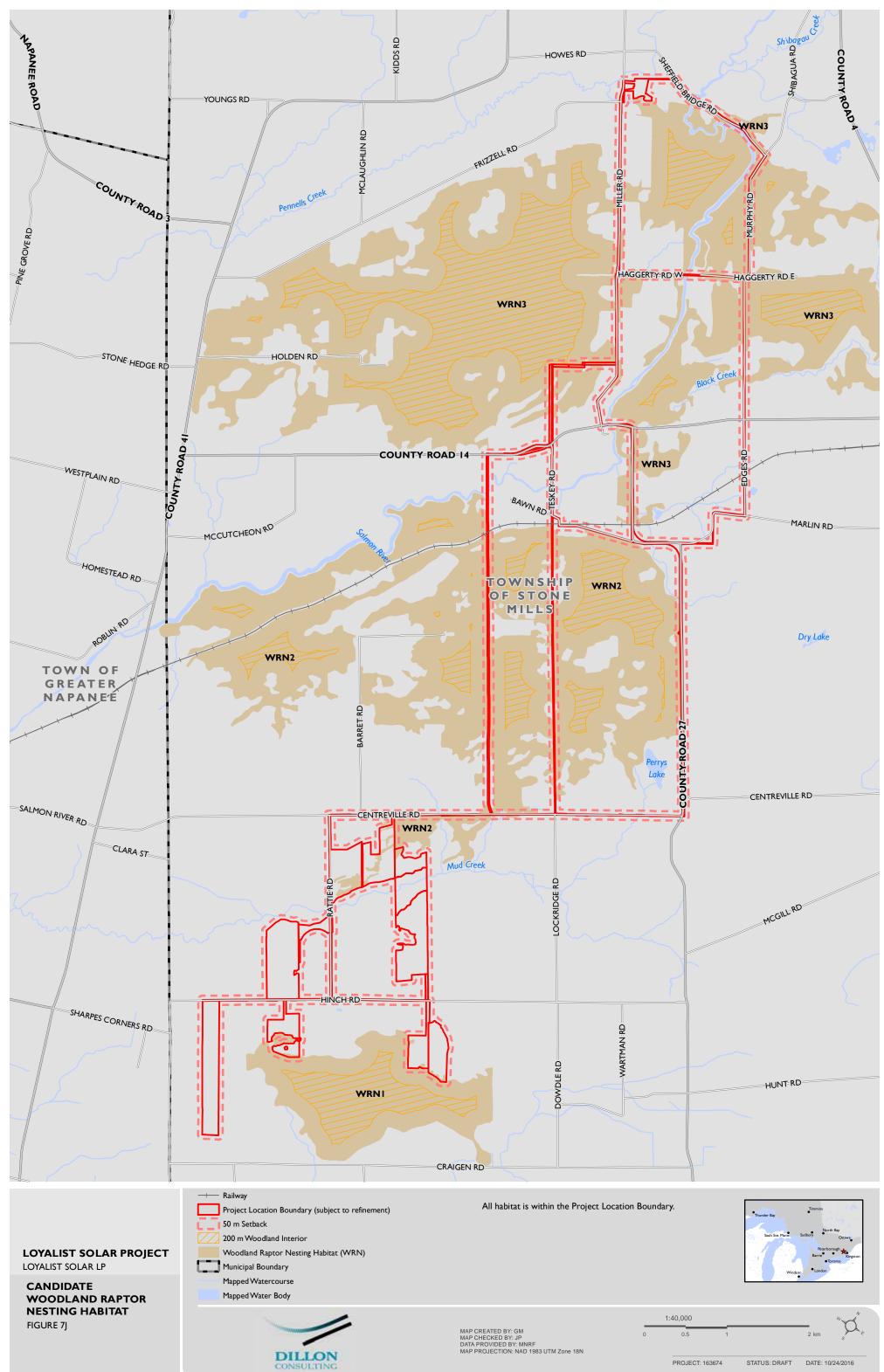
All habitat is within the Project Location Boundary. All habitat is buffered by 120 m.

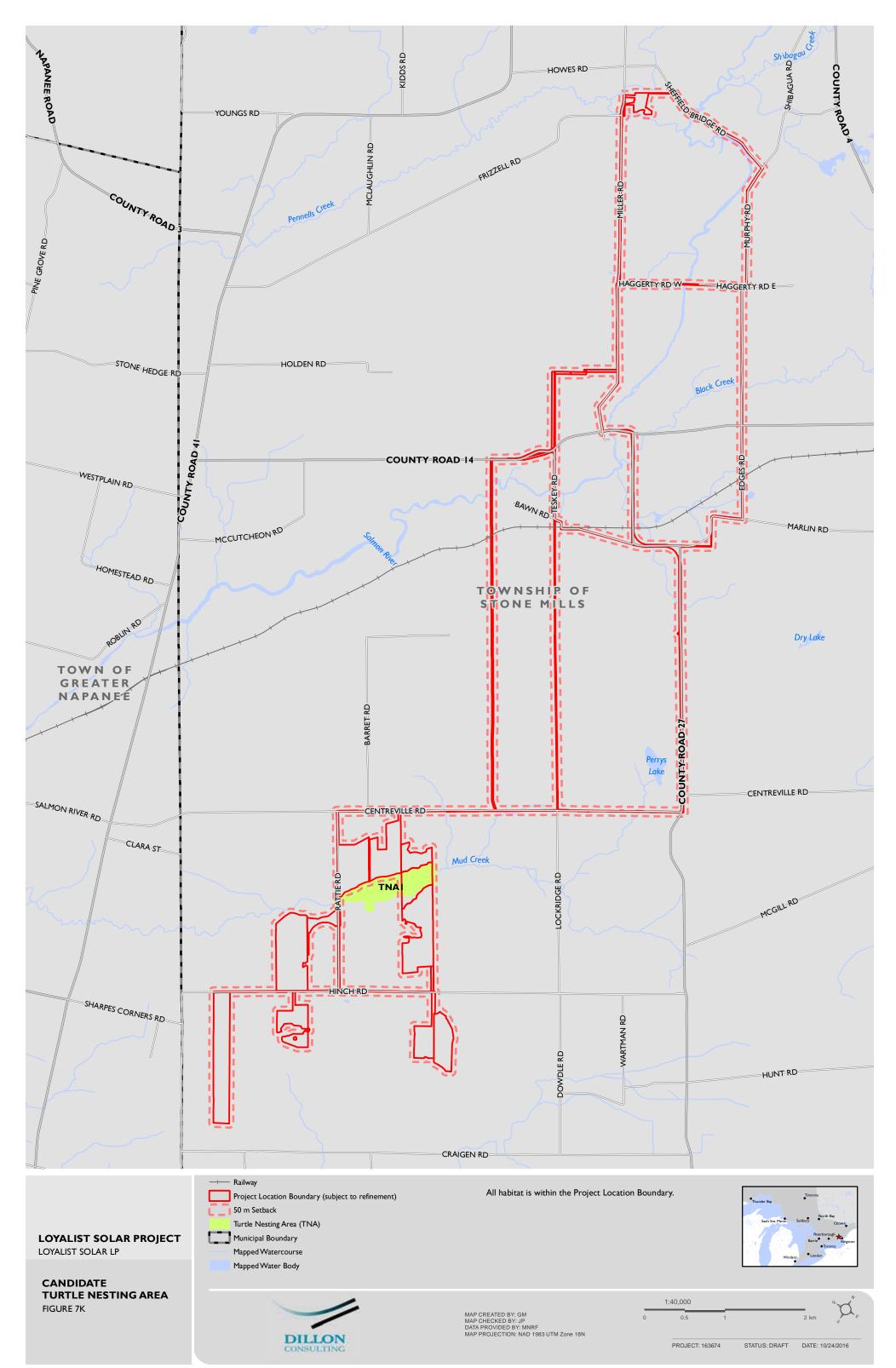


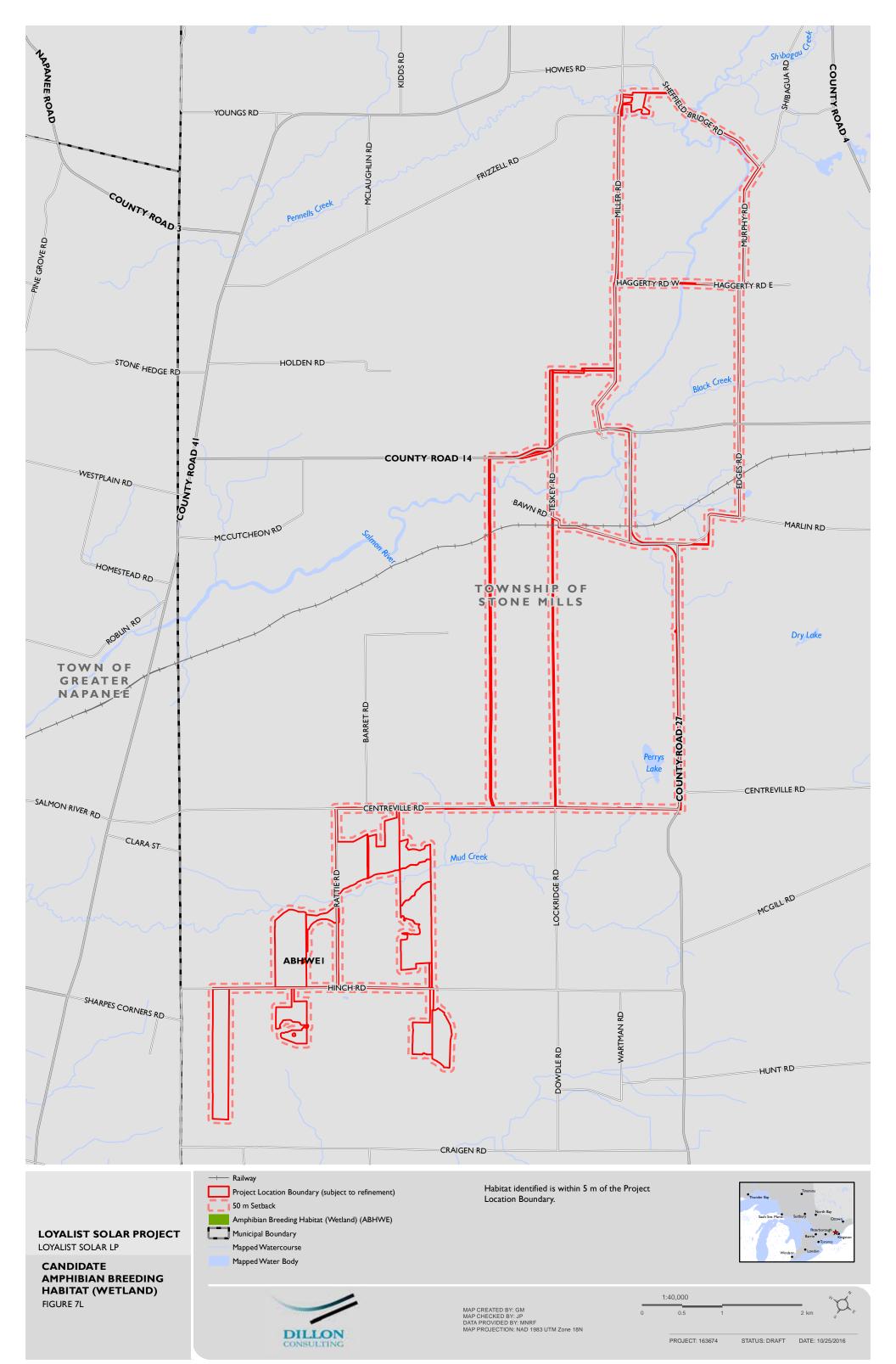


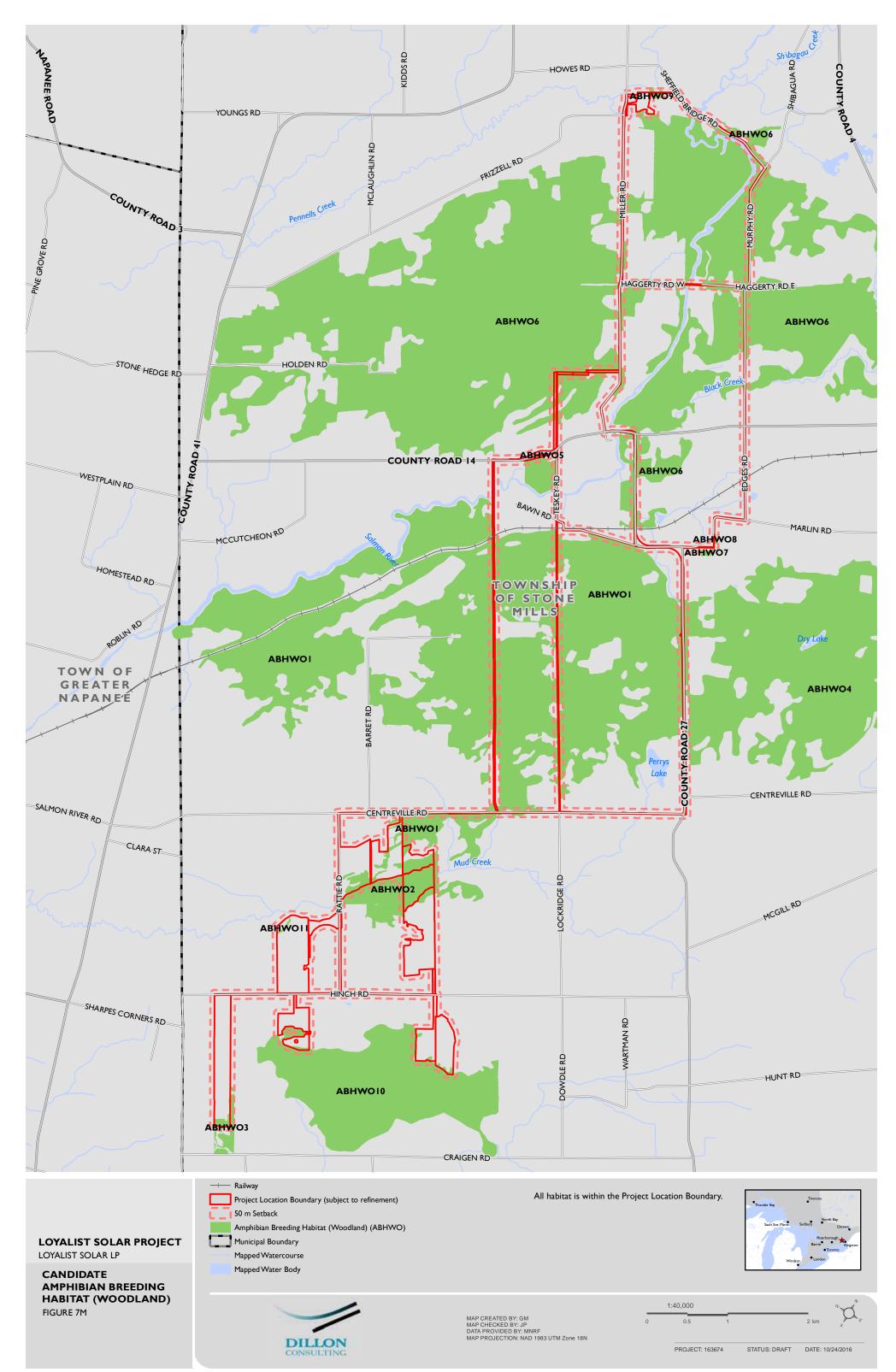
AREA



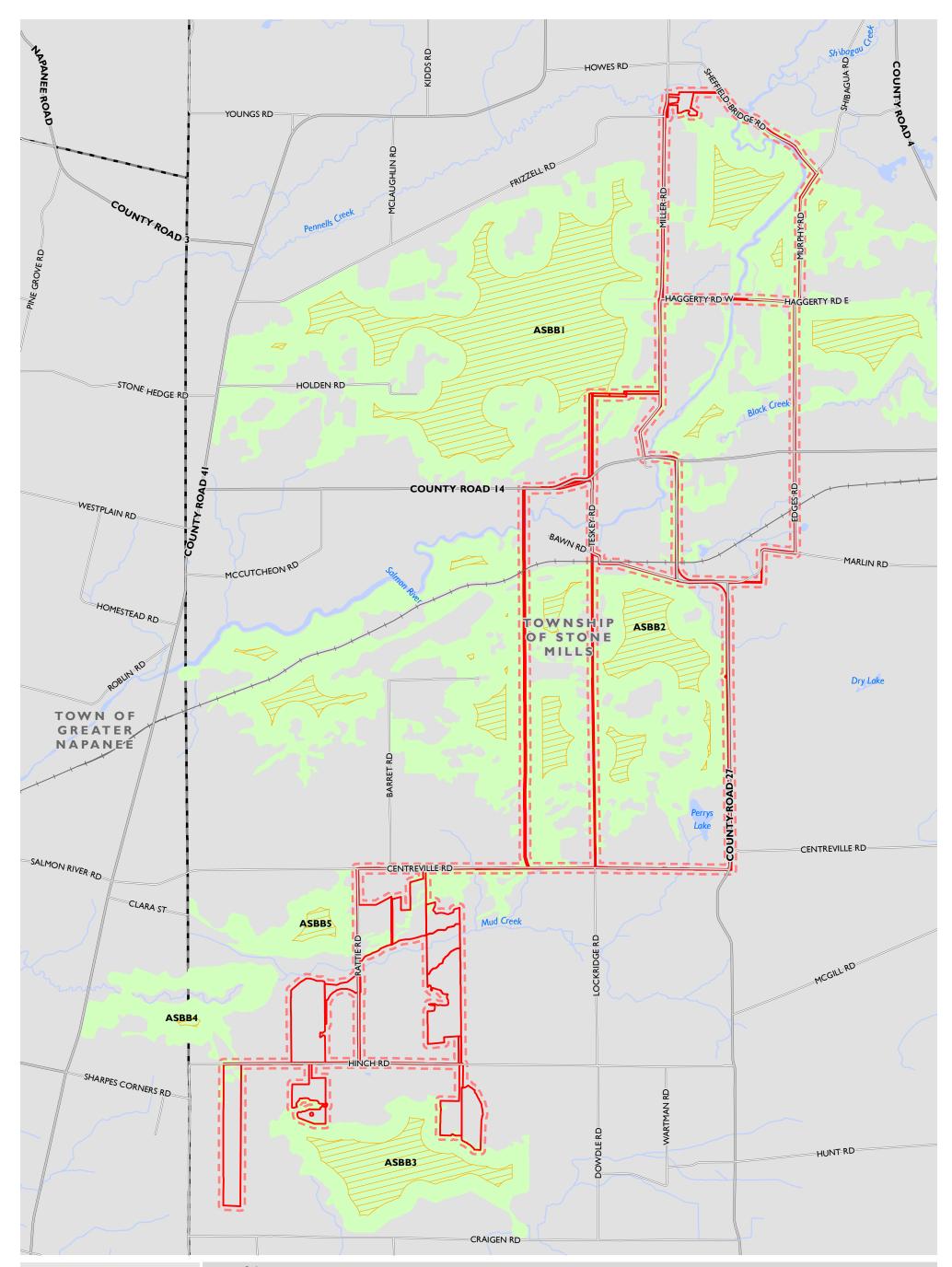


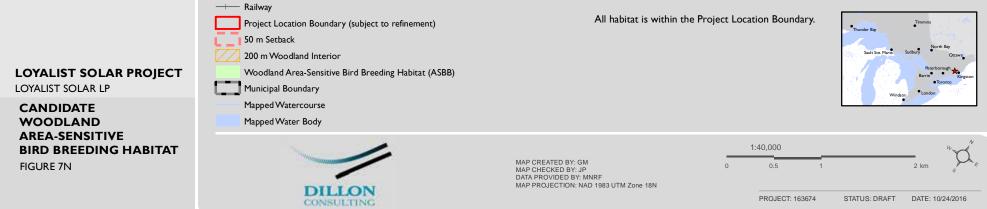


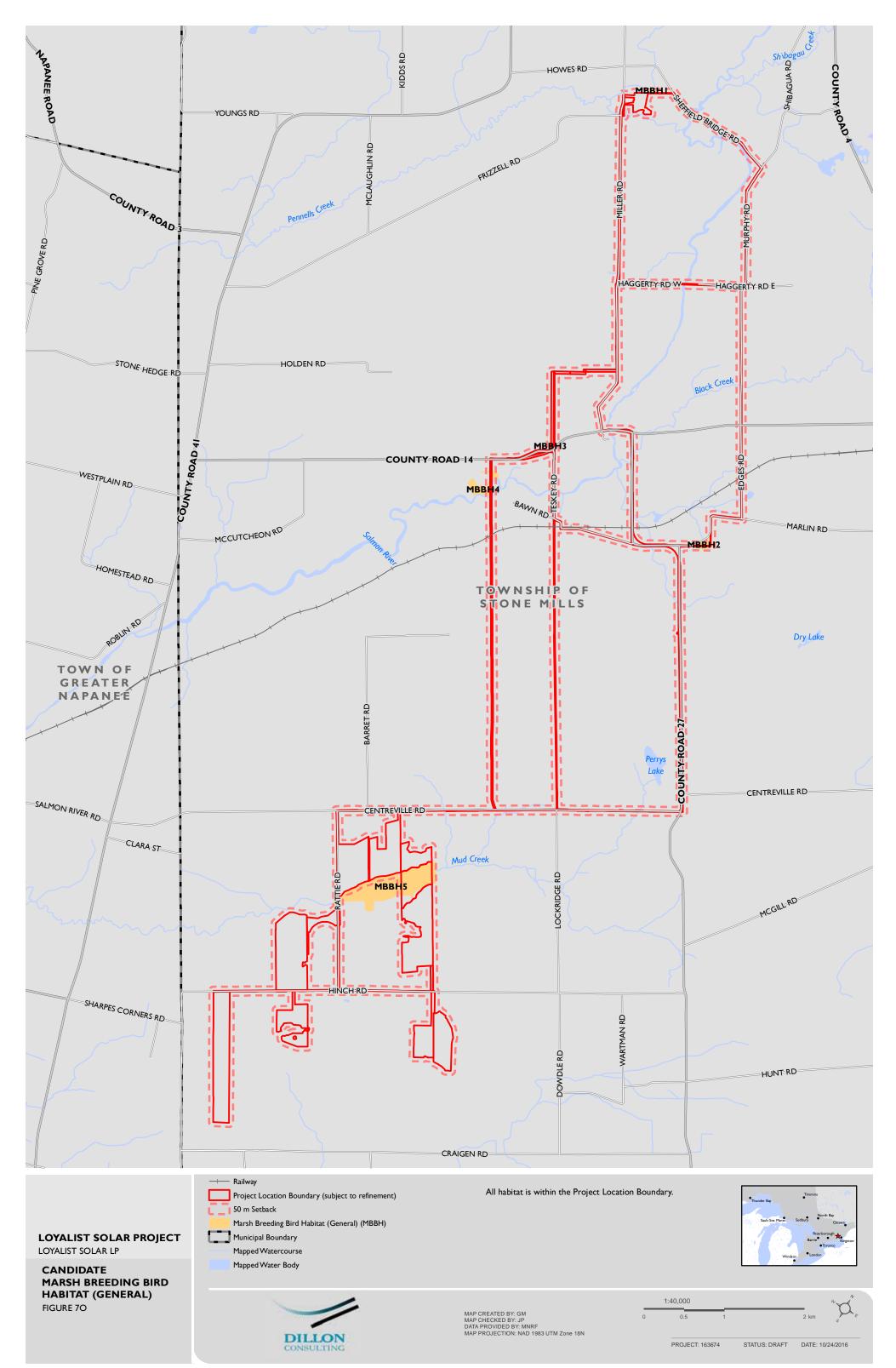


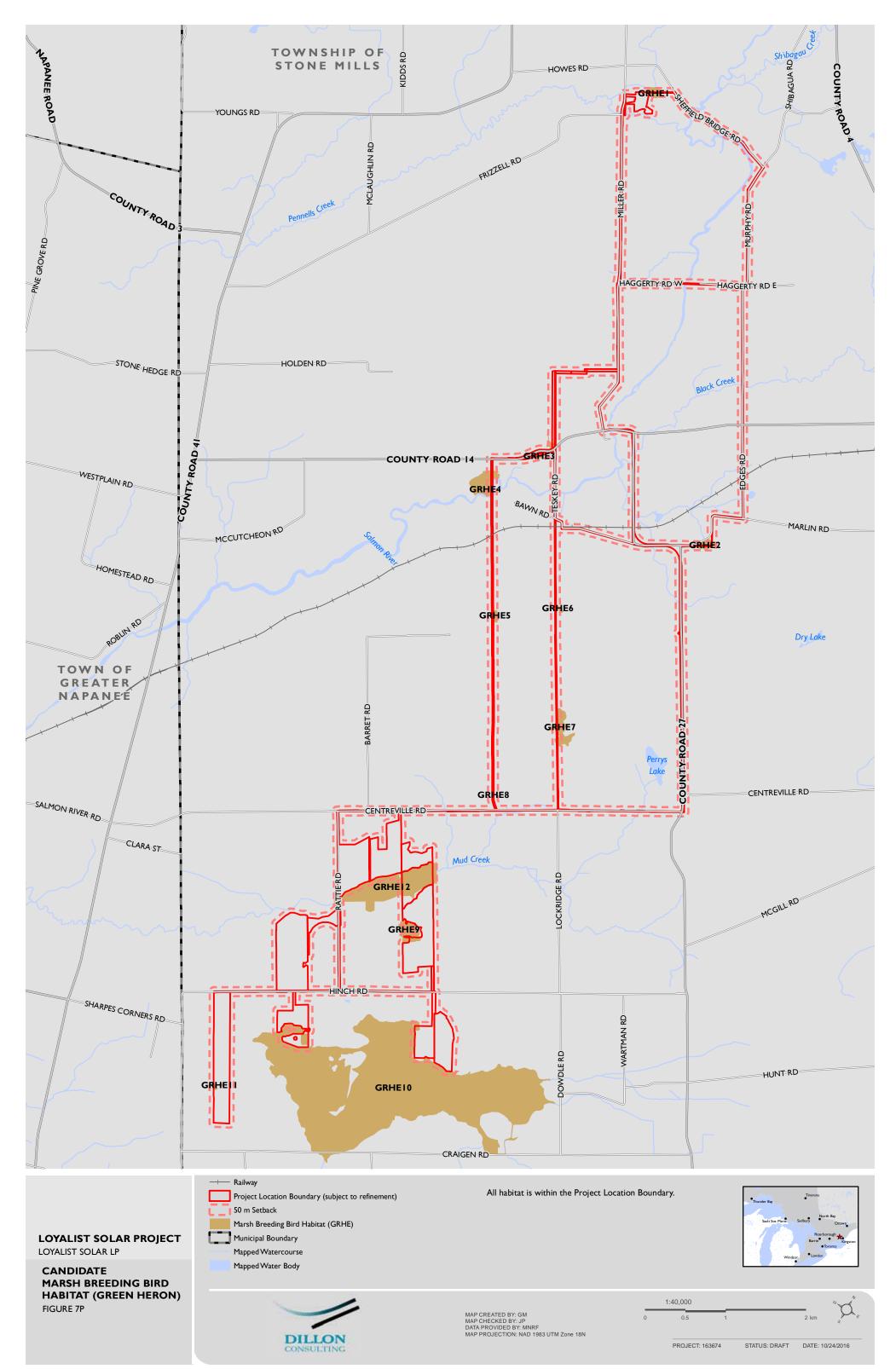


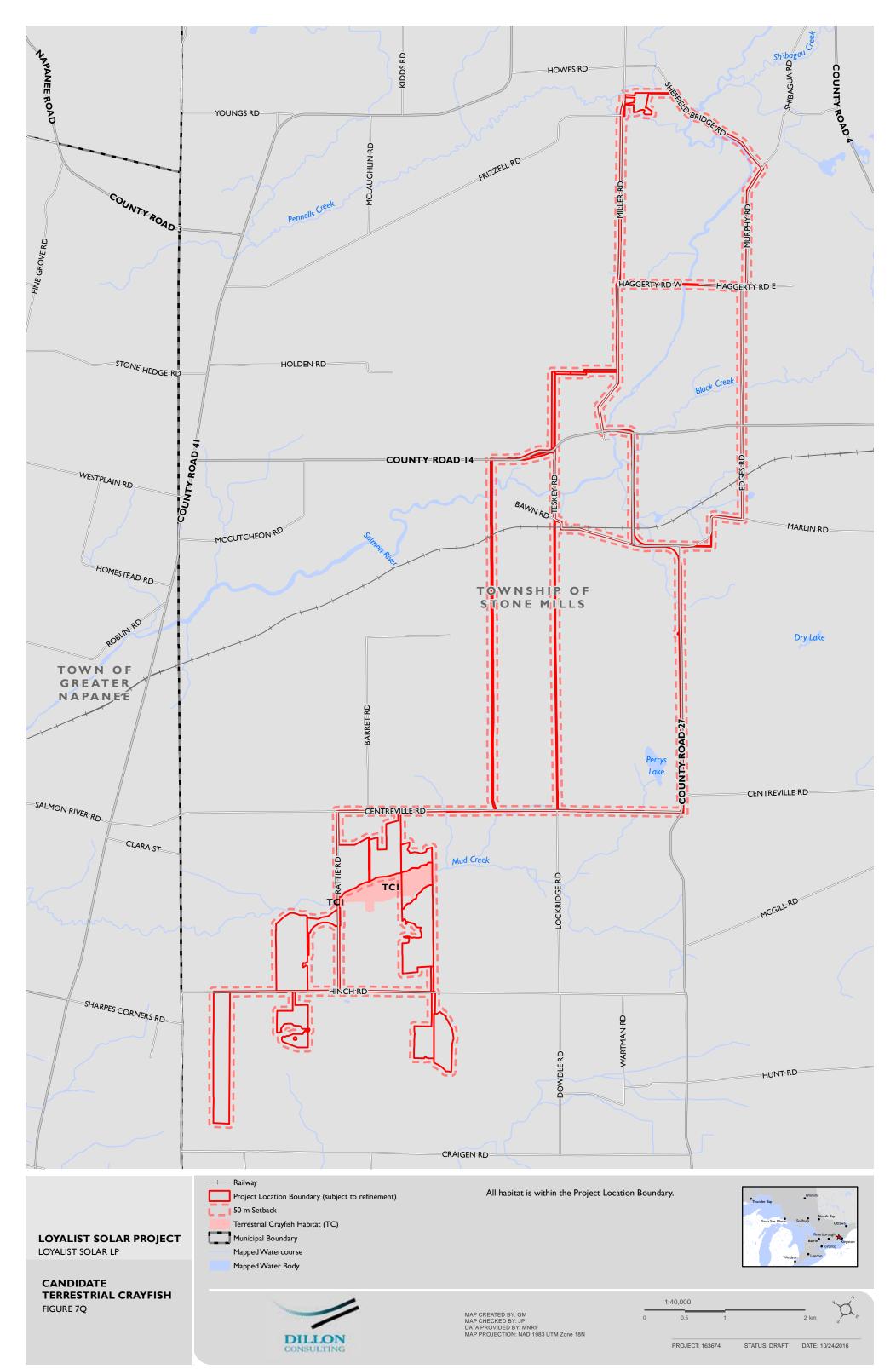
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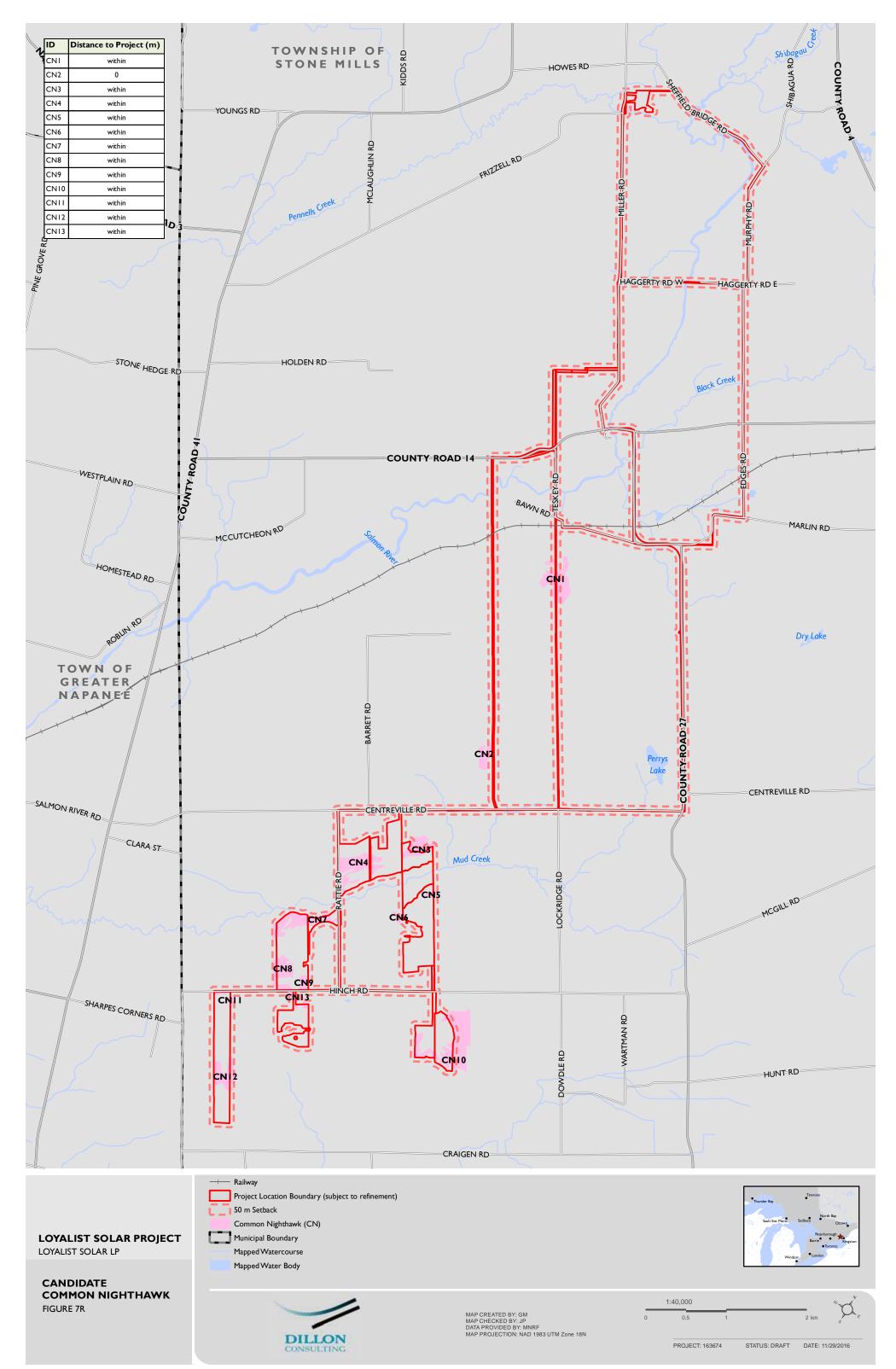


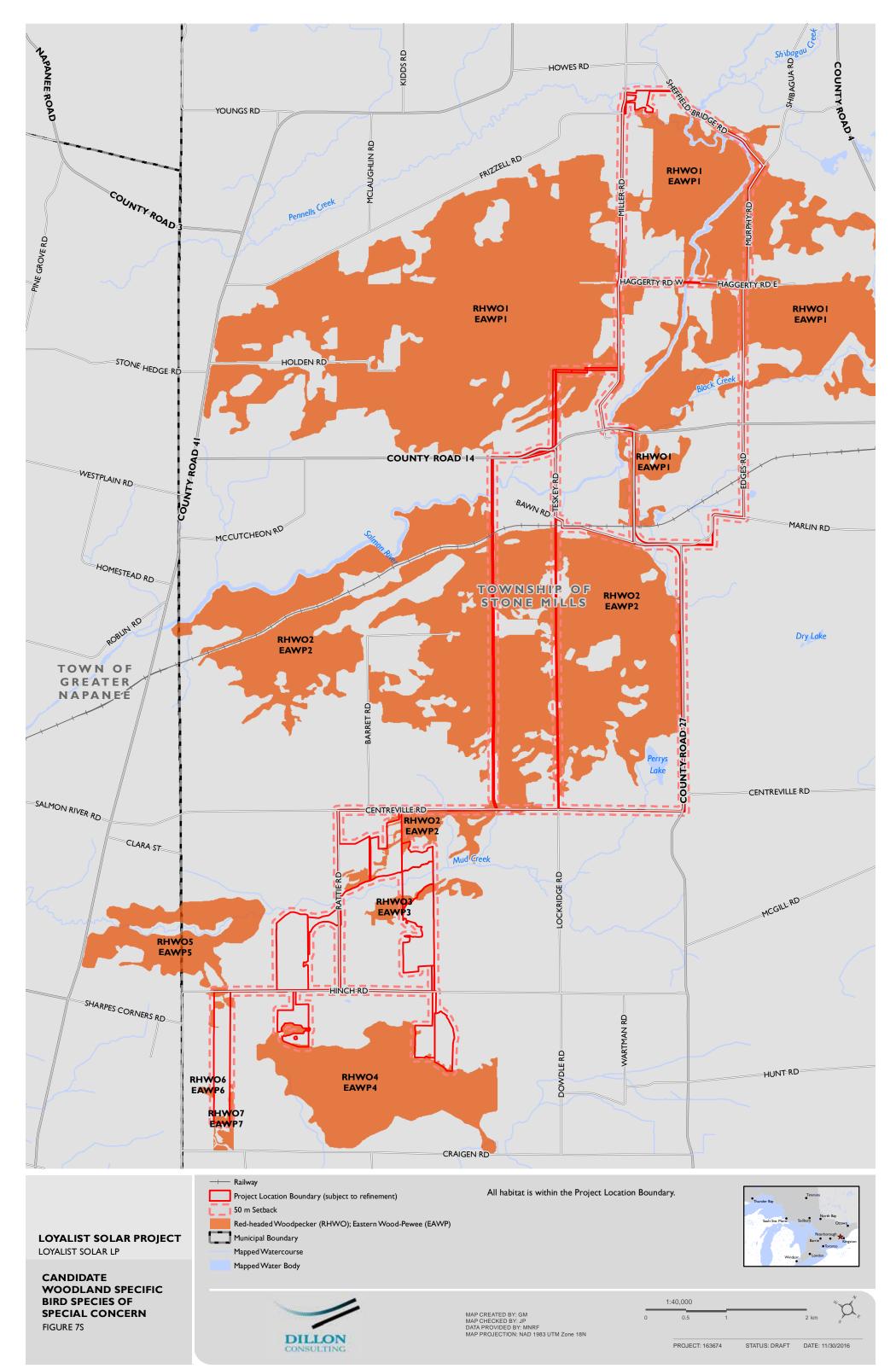


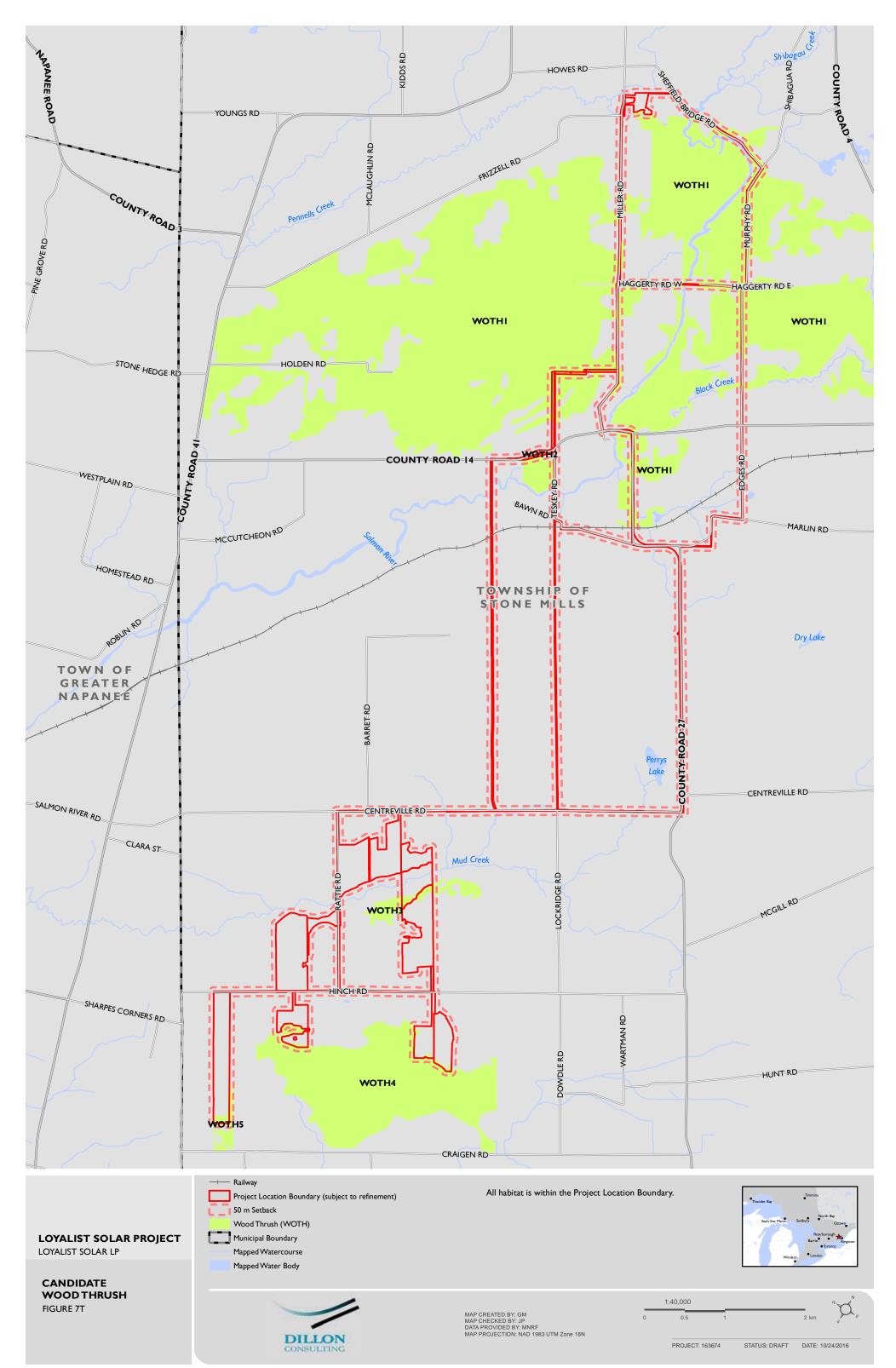


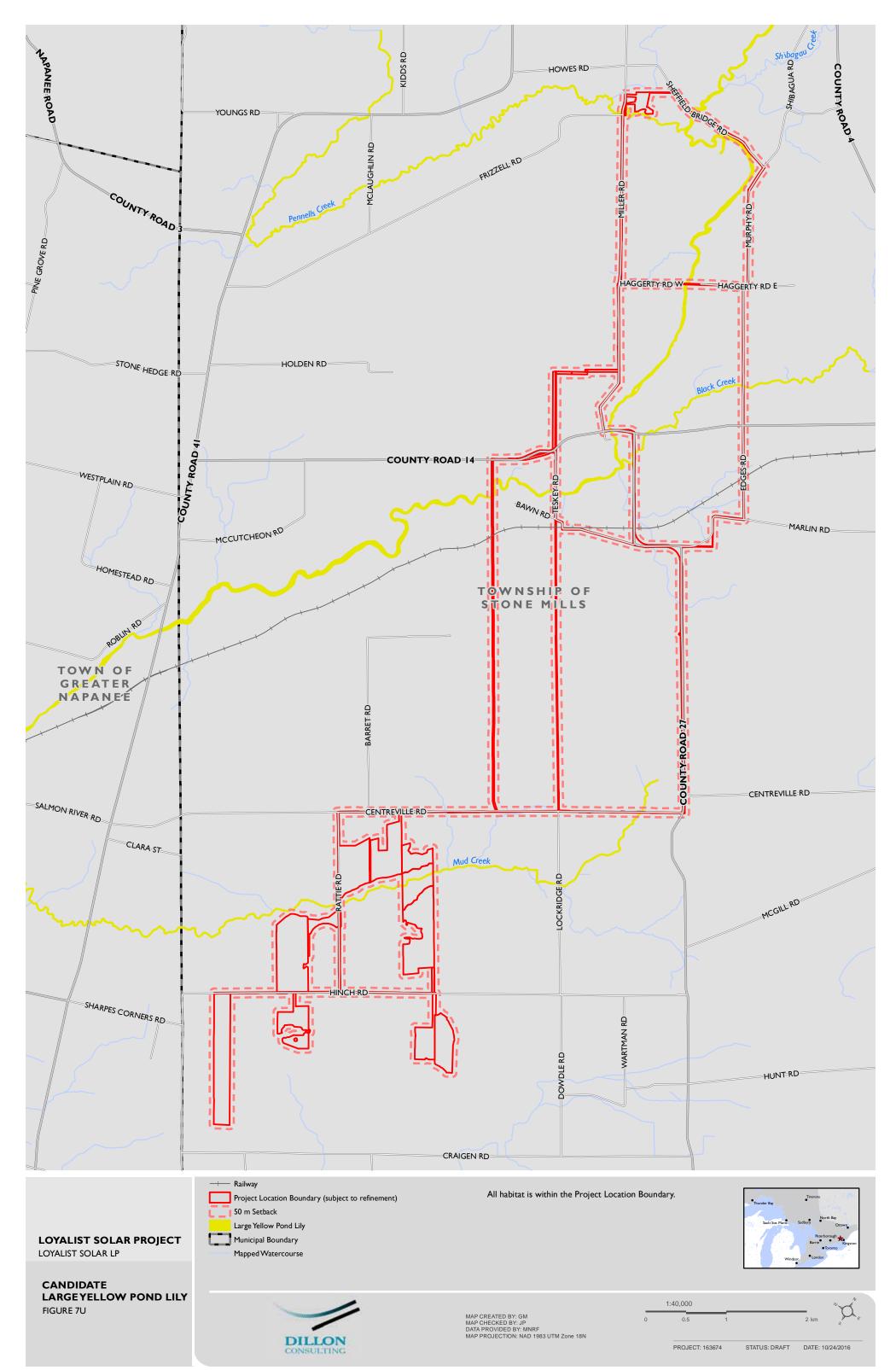


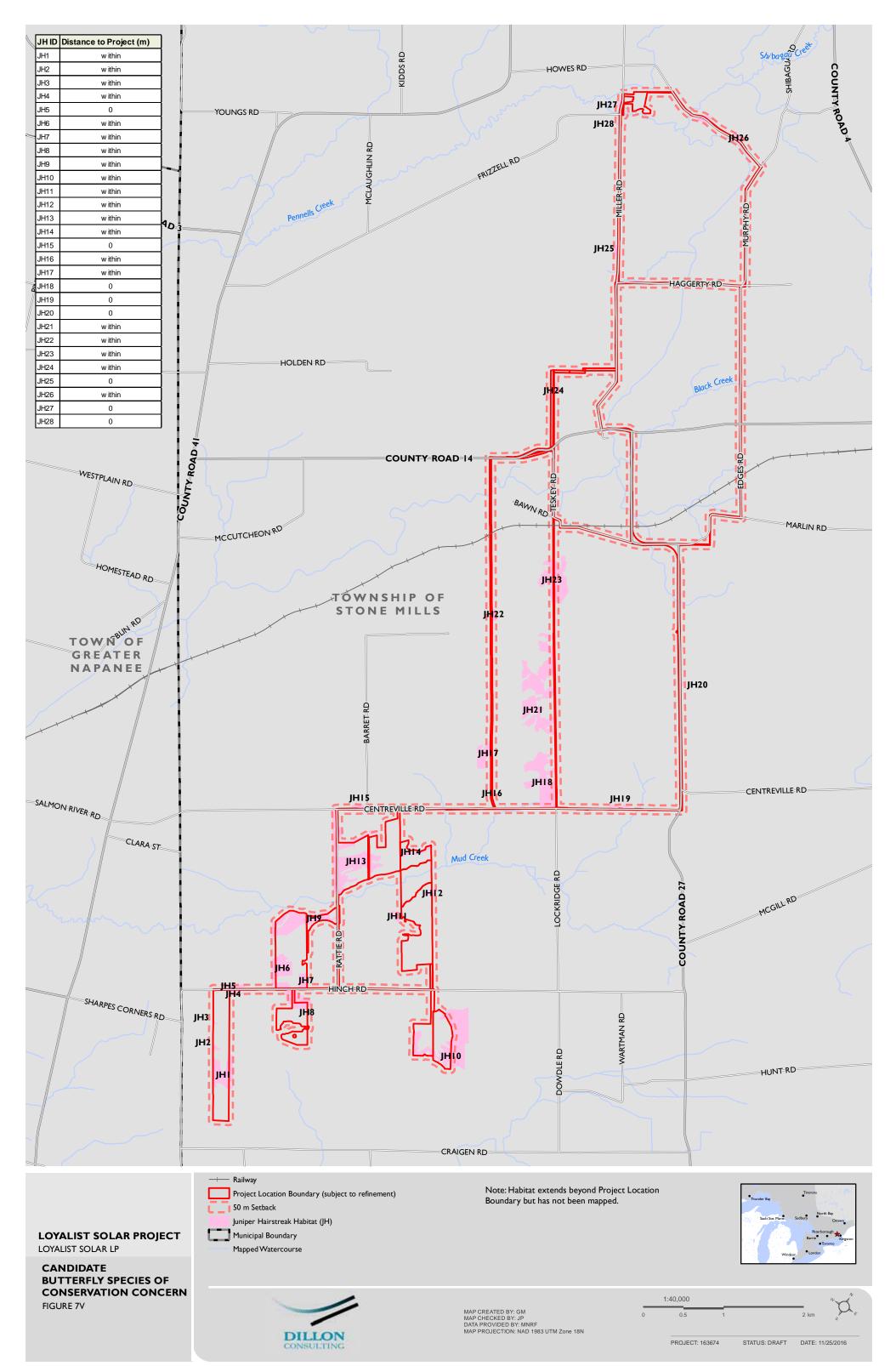


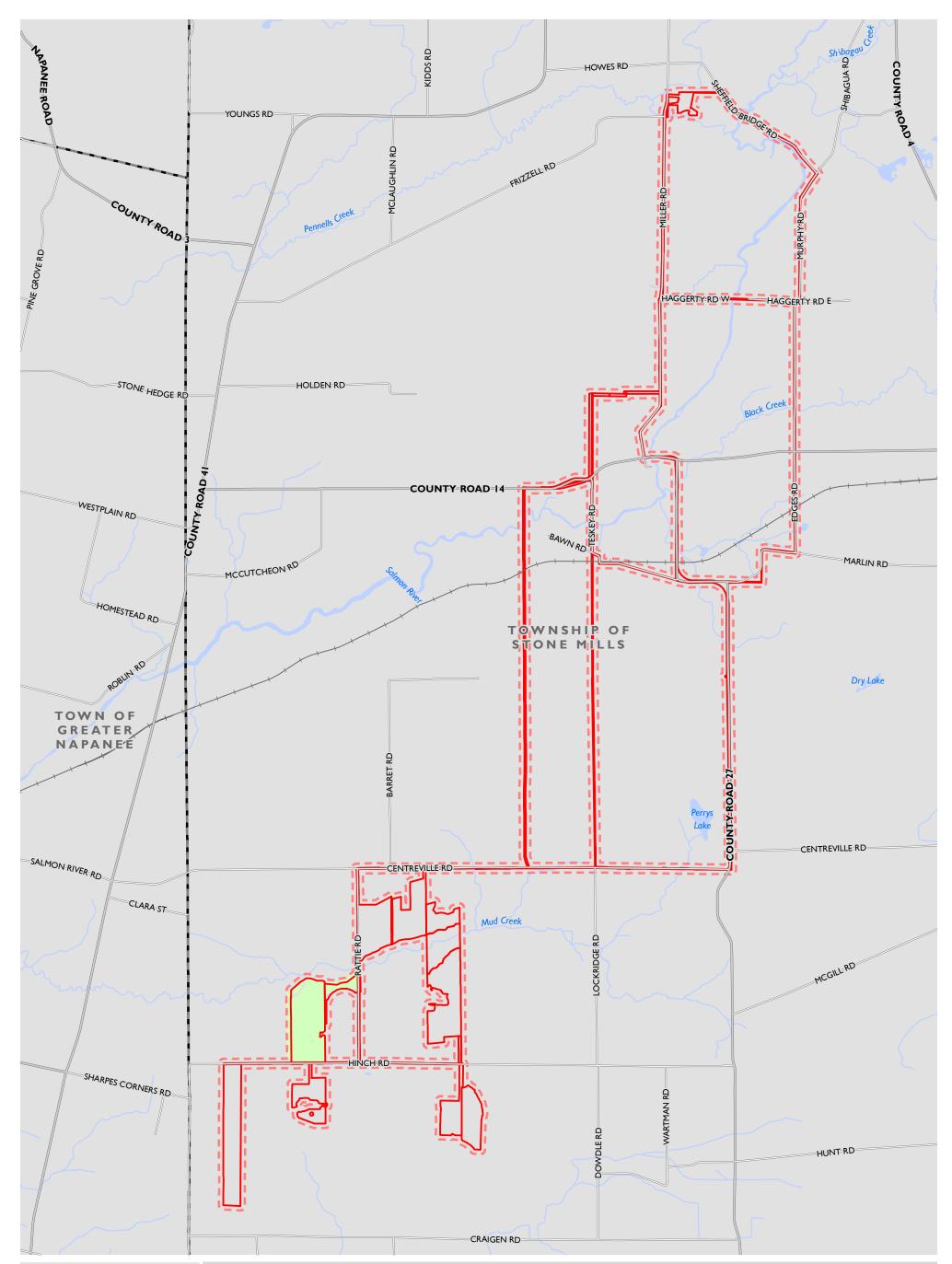


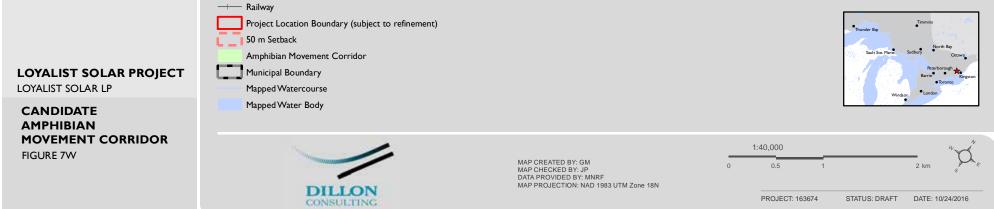












					tion		Status			
Wildlife Habitat	Definition of Habitat	Attr	Habitat Composition: ibutes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant	
asonal Concentrati	on Areas									
		ID	ELC*							
		WSST1	Perennial Cover Crop (44); Open Pasture (45);	✓	~		~			

		VV5511	Mixed Meadow (40)				
		WSST2	Perennial Cover Crop (44)	✓	✓	 ~	
		WSST3	Perennial Cover Crop (44); Open Pasture (45)	~	~	 ~	
	Fields with sheet water from spring melt and run-off which provide invertebrate foraging habitat for migrating waterfowl. Can be found in any Meadow	WSST4	Open Pasture (45); Perennial Cover Crop (44)	~	~	 ~	
Waterfowl Stopover and	(ME) (or CUM communities in the ELC first approximation codes) or Thicket (TH) (or CUT	WSST5	Open Pasture (45); Perennial Cover Crop (44)	~	~	 ~	
Staging Areas (Terrestrial)	communities in the ELC first approximation codes) that are maintained through anthropogenic disturbances	WSST6	Open Pasture (45)	✓	✓	 ~	
(Terrestriar)	(i.e., planting or agriculture, clearing, recreation, soil movement, grazing or mowing). Agricultural fields with waste grains are commonly used by waterfowl,	WSST7	Open Pasture (45); Perennial Cover Crop (44)	~	✓	 ~	
	these are not considered SWH.	WSST8	Open Pasture (45)	✓	✓	 ~	
		WSST9	Perennial Cover Crop (44)	✓	~	 ~	
		WSST10	Perennial Cover Crop (44)	✓	✓	 ✓	
		WSST (Other)	Mixed Meadow (40); Mixed Meadow (41); Bedrock Mixed Meadow (42); Perennial Cover Crop (44); Open Pasture (45)		✓	 	 ~





				Loca	ation		St	atus			
Wildlife Habitat	Definition of Habitat	At	Habitat Composition: ributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	Rationale for Status	Minimum Distance to the Project Location
	Ponds, marshes, lakes, bays, coastal inlets and	ID	ELC*							Three areas of Poplar/Maple Deciduous Swamp	
	watercourses used during migration can be significant	WSSA1	Poplar Deciduous Swamp (58)	\checkmark	✓		 ✓ 			occur in association with two of the potential connection line routes. WSSA1 and WSSA2 are	
	wildlife habitat for local and migrant waterfowl populations during migration. Sewage treatment ponds	WSSA2	Maple Deciduous Swamp (60)	\checkmark	~		~			part of a larger wetland area (Wetland #18), which retained standing water in the Spring of 2016.	Candidate
Waterfowl	and storm water ponds do not qualify as a significant wildlife habitat; however, a reservoir managed as a	WSSA3	Poplar Deciduous Swamp (58)	✓	~		~			WSSA3 is part of Wetland #33.	habitat within
Stopover and Staging Areas	large wetland or pond/lake does qualify. These	WSSA4	Cattail Organic Shallow Marsh (37)	\checkmark	~		~			WSSA4 is part of Mud Creek PSW (Wetland #104).	the Project Location
(Aquatic)	habitats have an abundant food supply (mostly aquatic invertebrates and vegetation in shallow water). Can be found in the following community types: Shallow Marsh (MAS), Shallow Aquatic (SA), and Deciduous Swamp (SWD).	WSSA (Other)	Deciduous Swamp (SWD) areas are found within 50 m of the Project Location		~				~	Areas of Deciduous Swamp (SWD) and Shallow Marsh (MAS) are located entirely within the Project Location 50 m setback areas are considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7A and 7	
Shorebird Migratory Stopover and Staging Areas	Shorelines of lakes, rivers and wetlands, including beach areas, bars and seasonally flooded, muddy and un-vegetated shoreline habitats. Great Lakes coastal shorelines, including groynes and other forms of armour rock lakeshores, are extremely important for migratory shorebirds in May to mid-June and early July to October. Sewage treatment ponds and storm water ponds do not qualify as a significant wildlife habitat. Can be found within the following ELC habitat types: Meadow Marsh (MAM), Sand Dune (SD), Beach Bar (BB).	Cattail	and Reed Canary Grass Meadow Marsh communities (30,31,34,35,36)		~				~	There is a reed canary grass meadow marsh that is part of Roblin Swamp (Wetland #41) and connected to the Salmon River. The shoreline area is mostly vegetated and is unlikely to support large numbers of migratory shorebirds. The other MAM communities associated with a water body or larger wetland are included as considered Generalized Candidate Significant Wildlife Habitat. See Figure 7 .	N/A
Raptor Wintering Area	The habitat provides a combination of fields and woodlands that provide roosting, foraging and resting habitats for wintering raptors. Least disturbed sites, idle/fallow or lightly grazed field/meadow habitats >15 ha with adjacent woodlands may be considered candidate significant wildlife habitat. Habitat includes any Forest (FO), in addition to one of the following Community Types: Meadow (CUM), Thicket (CUT), Savannah (CUS), Woodland (CUW) (<60% cover). Raptor wintering sites need to be >20 ha.	Candidate habitat does not occur within the Project				✓				Habitat that meets the criteria for candidate significant raptor wintering area does not occur in association with the Project Location. Habitat includes a mix of forest (FO) but lacks appropriately sized upland communities (CU) that are 15 ha or greater in size. Areas not composed of forest are primarily agricultural or heavily grazed pasture lands.	N/A



				Loca	ation		S	tatus							
Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function			Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	Rationale for Status	Minimum Distance to the Project Location				
Bat Hibernacula	Hibernacula may be found in abandoned mines, underground foundations, karsts, or one of the following ELC communities: Crevice (CCR) or Cave (CCA). SWH does not include buildings. The locations of bat hibernacula are relatively poorly known.	Candidate	e habitat does not exist within the Project Location or 50 m setback.			✓				The Project Location does not contain habitat (such as abandoned mines, underground foundations, karsts, crevices or caves) that would support bat hibernacula. There are some previously known sites in the greater landscape of the Project such as Roblin Hell-holes.	N/A				
Bat Maternity Colonies	Maternity colonies can be found in tree cavities, vegetation and often in buildings; however, buildings are not considered significant wildlife habitat. Maternity roosts are not found in caves and mines in Ontario. This habitat is associated with any of the following Community Types: Deciduous Forest (FOD), Mixed Forest (FOM), that have ≥10/ha wildlife trees ≥25 cm diameter at breast height (dbh). Female bats prefer wildlife tree (snags) in early stages of decay, class 1-3 or class 1 or 2.		FOD, FOM and FOC communities, as well as SWD are all found within the Project Location and/or the 50 m setback.		found within the Project Location and/or the		-			✓				Where FOD, FOC or FOM occurred within the Project Location or 50 m setback, the MNRF (2011) protocol for identifying candidate maternity roosts was implemented. None of the woodland areas met the snag/cavity tree density requirement of at least 10 snags per ha of trees greater than 25 cm dbh. See <i>Appendix D</i> for more information.	N/A
		ID*	ELC												
Turtle Wintering Areas	For most turtles, wintering areas are in the same general areas as their core habitat. Over-wintering sites are permanent water bodies, large wetlands, and bogs and fens with adequate dissolved oxygen. Water has to be deep enough not to freeze and have soft mud substrates. These habitats are found in the following Community Types: Swamp (SW), Marsh (MA), Open Water (OA), Shallow Water (SA), Open Fen (FEO), Open Bog (BOO).	TWA1	Cattail Organic Shallow Marsh (37)	✓	•		✓			The Marsh (MA) and open water areas with water that has a depth of 1 m or greater occurs in association with the Mud Creek PSW. This features occurs within the Project Location and is therefore included as Candidate Significant Wildlife Habitat. See Figure 7B	Candidate habitat are within the Project Location				
	Species of Conservation Concern: Common Snapping Turtle Northern Map Turtle	TWA (Other)	Open water (OA), Swamp (SW) and Marsh (MA) exist within the 50 m setback		¥				•	Within 50 m of the Project Location, swamp (SW) and marsh (MA) areas with water that has a depth of 1 m or greater occurs in association with the Hinch Swamp PSW. This feature is therefore is included as Generalized Candidate Significant Wildlife Habitat. See Figure 7 and 7B.	5 m				



				Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat	A	Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
		ID	ELC*		<u></u>		<u>.</u>	<u>.</u>	
		RH1	Red Cedar Alvar Woodland (51)	\checkmark	\checkmark		✓		
	-	RH2	Common Juniper Alvar (49)	\checkmark	✓		~		
		RH3	White Cedar Coniferous Swamp (53)	\checkmark	~		✓		
		RH4	White Cedar Coniferous Swamp (53)	✓	~		~		
		RH5	Red Cedar Alvar Woodland (51)	\checkmark	✓		✓		
	Hibernation occurs in sites located below frost lines in	RH6	Red Cedar Alvar Woodland (51)	\checkmark	\checkmark		~		
	burrows, rock crevices, broken and fissured rock, wetlands such as conifer or shrub swamps and swales, poor fens, or depressions in bedrock terrain with	RH7	Dry Lichen-Moss Open Alvar Pavement (47) Red Cedar Alvar Woodland (51) Poverty Grass Open Alvar Meadow (73)	✓	~		~		
Reptile Hibernaculum	sparse trees or shrubs with sphagnum moss or sedge hummock ground cover. Hibernacula can be found in any ecosite in central Ontario other than very wet ones. The following Community Types may be directly	RH8	Open Alvar Rock Barren (48) Red Cedar Alvar Woodland (51) Red Cedar Treed Alvar (52)	✓	~		✓		
	related to snake hibernacula: Talus (TA), Rock Barren (RB), Crevice (CCR), Cave (CCA), and Alvar (RBOA1,	RH9	Alvar Shrub Rock Barren (50)	\checkmark	✓		✓		
	RBSA1, RBTA1).	RH10	Alvar Shrub Rock Barren (50)	✓	✓		~		
	Species of Conservation Concern: Eastern Ribbonsnake Five-lined Skink	RH11	Red Cedar Alvar Woodland (51) Alvar Shrub Rock Barren (50)	\checkmark	~		~		
		RH12	Red Cedar Alvar Woodland (51) Alvar Shrub Rock Barren (50)	\checkmark	~		✓		
		RH13	Red Cedar Alvar Woodland (51)	\checkmark	~		✓		
		RH 14	Red Cedar Alvar Woodland (51)	\checkmark	~		~		
	-	RH15	White Cedar Coniferous Forest (8)	\checkmark	✓		~		
		RH16	White Cedar Coniferous Forest (8)	\checkmark	✓		✓		



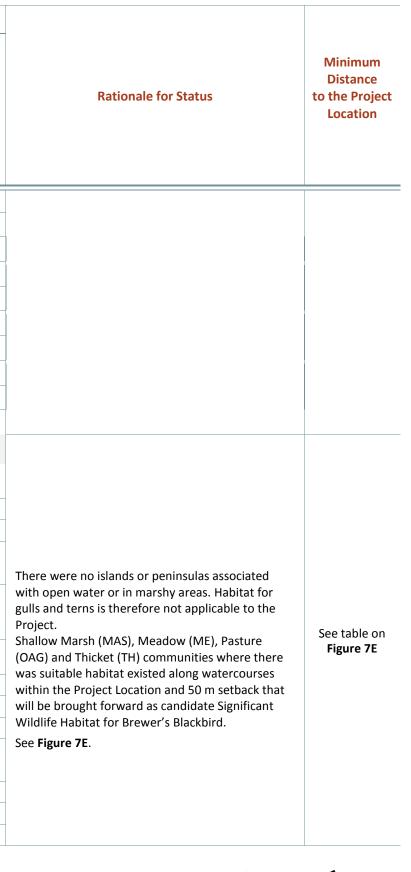


/				Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat	At	Habitat Composition: tributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
Colonially Nesting Bird Breeding Habitat (Bank and Cliff)	Any site or area with eroding banks, sandy hills, borrow pits, steep slopes, sand piles, cliff faces, bridge abutments, silos, or barns found in any of the following Community Types: Meadow (ME), Thicket (TH), Savannah (SV), Bluff (BL), Cliff (CL). This does not include man-made structures (bridges or buildings), licensed/permitted mineral aggregate operation, or recently (within the last 2 years) disturbed soil areas, such as berms, embankments, and soil or aggregate stockpiles.	communi	its for mining aggregate resources (CVC_4 ty in second approximation code) (Figure 4) hin the 50 m setback of the Project Location.		✓	V			
		ID	ELC*						
		CNT1	Maple Deciduous Swamp (60)		\checkmark		✓		
		CNT2	Maple Deciduous Swamp (60) Green Ash Deciduous Swamp (56)		✓		~		
		CNT3	Maple Deciduous Swamp(60)	\checkmark	\checkmark		✓		
		CNT4	Poplar Deciduous Swamp (58) White Cedar Coniferous Swamp(53) Maple Deciduous Swamp (60)	~	~		~		
	Nests in live or dead standing trees in wetlands, lakes,	CNT5	Poplar Mineral Deciduous Swamp(58)	✓	✓		✓		
Colonially	islands and peninsulas. Shrubs and occasionally	CNT6	Green Ash Deciduous Swamp (56)	\checkmark	✓		✓		
Nesting Bird Breeding	emergent vegetation may also be used. Most nests in trees are 11 to 15 m from ground, near the top of tree.	CNT7	Green Ash Deciduous Swamp (56)		✓		✓		
Habitat (Trees	This habitat can be found in any of the following	CNT8	Green Ash Deciduous Swamp(56)	\checkmark	✓		✓		
& Shrubs)	community types: Mixed Swamp (SWM); Deciduous Swamp (SWD), Coniferous Swamp (SWC).	CNT9	Black Ash Deciduous Swamp(55)		✓		✓		
		CNT10	Deciduous Swamp (59)		✓		✓		
		CNT11	Deciduous Swamp (59)		~		✓		
		CNT12	Maple Deciduous Swamp (57)		✓		✓		
		CNT13	Maple Deciduous Swamp (57)		✓		✓		
		CNT14	Maple Deciduous Swamp (57)		\checkmark		~		
		CNT15	Green Ash Deciduous Swamp (56)	✓	✓		✓		
		CNT16	Green Ash Deciduous Swamp (56)	~	✓		✓		
		CNT17	Green Ash Deciduous Swamp (56)	\checkmark	✓		✓		
		CNT18	Green Ash Deciduous Swamp (56)		✓		✓		

Rationale for Status	Minimum Distance to the Project Location
There is one licenced quarry (Camden Quarry) where there is a steep slope from mining aggregate recourses. Licensed aggregate operations do not qualify as candidate significant wildlife habitat.	N/A
Swamp (SWD, SWC and SWM) communities identified within the Project Location and extending to the 50 m setback is potential habitat. Access wasn't provided to the full extent of the habitats identified to look for nests. Areas of Deciduous Swamp (SWD) located entirely within the Project Location 50 m setback area are considered Candidate Significant Wildlife Habitat. See Figure 7D .	See table on Figure 7D



				Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat	At	Habitat Composition: tributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant
		CNT19	Green Ash Deciduous Swamp (56)		✓		✓		
		CNT20	Maple Deciduous Swamp (57)	~	✓		~		
		CNT21	Green Ash Deciduous Swamp (56)		~		~		
		CNT22	Maple Deciduous Swamp (57)		✓		~		
		CNT23	Green Ash Deciduous Swamp (56)		~		~		
		CNT24	Green Ash Deciduous Swamp (56)		~		~		
		CNT25	Green Ash Deciduous Swamp (56)		~		~		
		CNT26	Black Ash Deciduous Swamp(55)	~	~		~		
		CNT27	Black Ash Deciduous Swamp(55)		✓		~		
		CNT28	Green Ash Deciduous Swamp (56)		~		~		
		ID	ELC*		I	1	1	1	1
		CNG1	Cattail Shallow Marsh (37); Open Pasture (45)	~	 ✓ 		~		
		CNG2	Mixed Meadow (40)	~	✓		~		
		CNG3	Mixed Meadow (41); Cattail Marsh (37);	~	✓		✓		
	Nesting colonies of gulls and terns on islands or	CNG4	Mixed Meadow (41)	~	\checkmark		~		
	peninsulas associated with open water or in marshy areas. Brewer's Blackbird colonies are found loosely	CNG5	Mixed Meadow (41)	✓	✓		 ✓ 		
Colonially Nesting Bird	on the ground in low bushes in close proximity to	CNG6	Mixed Meadow (40)		✓		✓		
Breeding	streams and irrigation ditches within farmlands. Any rocky island or peninsula within a lake or large	CNG7	Graminoid Meadow (39); Ford Meadow (38)	~	~		~		
Habitat (Ground)	river, in close proximity to watercourses in open fields or pastures with scattered trees or shrubs found in any	CNG8	Mixed Meadow (40); Bedrock Mixed Meadow (42)		~		~		
	of the following Community Types: Meadow Marsh	CNG9	Bedrock Mixed Meadow (42)		✓		~		
	(MAM), Shallow Marsh (MAS), Meadow (ME), Thicket (TH), Savannah (SV).	CNG10	Mixed Meadow (40)		\checkmark		✓		
	Species of Conservation Concern:	CNG11	Mixed Meadow (40)		✓		✓		
	Black tern	CNG12	Mixed Meadow (40)	✓	 ✓ 		 ✓ 		
		CNG13	Mixed Meadow (40)	 ✓ 	✓		 ✓ 		
		CNG14	Perennial Cover Crop (44)	✓ ✓	✓		 ✓ 		
		CNG15	Perennial Cover Crop (44)	✓ ✓	✓ ✓		 ✓ ✓ 		
		CNG16	Open Pasture (45)	✓	✓		✓		-





			Loca	ation		St	atus			
Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function		Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	Rationale for Status	Minimum Distance to the Project Location
Deer Winter Congregation Areas	Deer winter congregation areas are areas deer move to in response to the onset of winter snow and cold. Woodlots will typically be ≥100 ha in size and comprised of FOC, FOM, FOD, SWC, SWM, and SWD. Deer management is an MNRF responsibility.	Potential habitat does not exist within the Project Location or 50 m setback.			✓				Planning authorities are advised to rely on MNRF advice for locations and significance of Deer Winter Congregation Areas. MNRF is responsible for the management of Deer habitat in Ontario. No Deer Winter Congregation Areas previously evaluated as significant were identified by MNRF in the Project Location or in the 50m setback area. The MNRF identified a stratum 2 deer wintering yard in the general area of the Project Location. It was determined to be located more than 50 m from the proposed Project Location.	N/A
Rare Vegetatio	on Communities		-				1			
Cliffs and Talus Slopes	A cliff is vertical to near vertical bedrock that is greater than 3 m in height. A talus slope is rock rubble at the base of a cliff made up of coarse rocky debris. Talus Slopes are associated with the following ELC communities: TAO (Open Talus), TAS (Shrub Talus), TAT (Treed Talus).	Potential habitat does not exist within the Project Location or 50 m setback.			✓				ELC studies did not identify talus slopes within the Project Location or 50 m setback.	N/A
Sand Barren	Sand barrens typically are exposed sand, generally sparsely vegetated, and caused by lack of moisture, periodic fires and erosion. This habitat is associated with any of the following Community Types: SBO1 (Open Sand Barren Ecosite), SBS1 (Shrub Sand Barren Ecosite), SBT1 (Treed Sand Barren Ecosite). The site must not be dominated by exotic or introduced species (<50% vegetative cover exotics). Tree cover is always ≤ 60%.	Potential habitat does not exist within the Project Location or 50 m setback.			~				ELC studies did not identify sand barrens within the Project Location or 50 m setback.	N/A



				Loca	ation		Sta	atus	_		
Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function			Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	Rationale for Status	Minimum Distance to the Project Location
	An Alvar is typically a level, mostly unfractured	ID	ELC*		<u> </u>		<u></u>			Alvar communities (ALO, ALS and RBT as per the	
	calcareous bedrock feature with a mosaic of rock	ALV1	White Cedar Coniferous Forest(8)	✓	✓		✓			ELC first approximation code) exist within the	
	pavements and bedrock overlain by a thin veneer of soil. The hydrology of Alvars is complex, with	ALV2	White Cedar Coniferous Forest(8)	✓	✓		✓			Project Location and 50 m setback.	
	alternating periods of inundation and drought. This habitat may be associated with any of the	ALV3	White Cedar Coniferous Forest(8); Bedrock Mixed Meadow (42)	~	\checkmark		~			ELC studies identify three rare vegetation communities, as defined in the Significant Wildlife	
	following ELC communities: ALO1, ALS1, ALT1, FOC1, FOC2, CUM2, CUS2, CUT2-1, CUW2 that are >0.5 ha in	ALV4	White Cedar Bedrock Coniferous Forest(11); Red Cedar Alvar Woodland (51)	\checkmark	~		~			Habitat Technical Guide (MNRF 2000), within the Project Location and 50 m setback.	
	size. Where these communities occur, they have been identified as candidate alvar communities and will be carried forward into the NHA Evaluation of Significance.	ALV5	Red Cedar Alvar Woodland (51)	\checkmark	\checkmark		\checkmark			ALV6 is comprised of ALS1-1 (GRANK of G2 and	
		ALV6	White Cedar Bedrock Coniferous Forest(11); Common Juniper Shrub Alvar (49)	\checkmark	~		✓			SRANK S2). This community occurs within the Project Location and 50 m setback.	
		ALV7	White Cedar Bedrock Coniferous Forest(11)	\checkmark	✓		✓				
	Provincially Rare Vegetation Communities of Special Concern listed in Appendix M of the SWHTG: ALO1-1	ALV8	Red Cedar Alvar Woodland (51); White Cedar Bedrock Coniferous Forest(11); Cultural Alvar (2)	\checkmark	~		~			ALV21 is comprised of ALO1-1 (GRANK of G2 and SRANK of S1) and ALT1-5 (GRANK of G2 and SRANK S2). These communities occur in one area of the Project Location and 50 m setback.	
	ALS1-1	ALV9	White Cedar Bedrock Coniferous Forest(11)	\checkmark	✓		✓			of the Project Location and 50 m setback.	All candidat habitats are
	ALT1-5 Alvar Indicator Species: Crawe's Sedge Philadelphia Panic grass Elat-stemmed Spike rush	ALV10	White Cedar Coniferous Forest(8); White Cedar Bedrock Coniferous Forest(11)	\checkmark	~		~			See Figure 7F.	within the Project Locat
Alvar		Crawe's Sedge	ALV11	Cultural Alvar (2); Red Cedar Alvar Woodland (51); Red Cedar Calcareous Treed Alvar (52)	\checkmark	~		~			
	Small Skullcap False Pennyroyal	ALV12	Red Cedar Alvar Woodland (51); Red Cedar Treed Alvar (52)	~	✓		~				
	Species of Special Concern:	ALV13	Alvar Shrub Rock Barren (50)	✓	✓		✓				
	Tiny Mouse-tail Second Rush/ One-sided Rush Few-fruited Sedge	ALV14 ALV15	Alvar Shrub Rock Barren (50) Red Cedar Alvar Woodland (51);Alvar Shrub Rock Barren (50); Bedrock Mixed Meadow (42); Red Cedar Alvar Woodland Type (51)	√ √	✓ ✓		✓ ✓				
	Carolinian Whitlow-grass/ Creeping Draba	ALV16	Red Cedar Alvar Woodland Type (51) Red Cedar Alvar Woodland (51); Shrub Pasture (74); Cultural Alvar (2); Bedrock Mixed Meadow (42)	✓	~		✓				
			Red Cedar Alvar Woodland (51); Cultural Alvar (2)	✓	✓		~				
	A	ALV18	Bedrock Mixed Meadow (42)	\checkmark	✓		~				
		ALV19	Bedrock Mixed Meadow (42)	\checkmark	\checkmark		\checkmark				



						Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat	ŀ	Habitat Compositi		1	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
	· · · · · · · · · · · · · · · · · · ·	ALV20	Bedrock Mixed	Meadow (42)	√	✓		~		
		ALV21	Poverty Oat Grass Alv Alvar Woodland (51); Alvar Pavement (51) Buttercup Alvar (Lichen-Me ; Red Ceda	oss Open ar Early-	~	~		~		
		ID	ELC*	Total Size (ha)	Interior Size (ha)						
		0G1	Please refer to Table 8 for Vegetation Communities associated with Woodland AD		464.82	✓	V		~		
	Old Growth Forests are characterized by heavy	OG2	Please refer to Table 8 for Vegetation Communities associated with Woodland AP	83.92	34.25	✓	V		v		
	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 ha with at least 10 ha interior assuming 100 m buffer at edge of forest,	OG3	Please refer to Table 8 for Vegetation Communities associated with Woodland BD	539.45	247.84		\checkmark		~		
Old Growth Forest	and are associated with the following Community Types: FOD (Deciduous Forest), FOM (Mixed Forest), FOC (Coniferous Forest). The stand will have experienced no recognizable forestry activities.	OG4	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	1774.24	893.57	✓	\checkmark		✓		
	Forests with a wide range of tree sizes, uneven canopy and canopy gaps, abundant fallen logs in varying states of decomposition, trees in older age classes (often 50- 140 years;).	OG5	Please refer to Table 8 for Vegetation Communities associated with Woodland DB	101.41	32.81	✓	\checkmark		✓		
		OG6	Please refer to Table 8 for Vegetation Communities associated with Woodland L	132.37	29.31	✓	\checkmark		~		
		OG7	Please refer to Table 8 for Vegetation Communities associated with Woodland I	261.96	167.79	✓	✓		~		

Rationale for Status	Minimum Distance to the Project Location
Woodlands greater than 30 ha that occur within the Project Location include interior woodland habitat greater than 10 ha in size.	
See Figure 7G.	
	See Table on Figure 7G



				Loca	ation		St	atus		
Wildlife Habitat	Definition of Habitat		Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	
Savannah	A Savannah is a tallgrass prairie habitat that has tree cover between 25-60%, and are associated with the following ELC communities: TPS1 (Dry-Fresh Tallgrass Mixed Savannah Ecosite), TPS2 (Fresh-Moist Tallgrass Deciduous Savannah Ecosite), TPW1 (Dry-Fresh Black Oak Tallgrass Deciduous Woodland Ecosite), TPW2 (Fresh-Moist Tallgrass Deciduous Woodland Ecosite), CUS2 (Bedrock Cultural Savannah Ecosite). These communities must be restored or natural and must not be dominated by exotic or introduced species (<50% vegetative cover exotics).		l habitat does not exist within the Project or 50 m setback.			~				
Tallgrass Prairie	A tallgrass prairie has ground cover dominated by prairie grasses. An open tallgrass prairie habitat has less than 25% tree cover. This habitat is associated with the following communities: TPO1 (Dry Tallgrass Prairie Ecosite), TPO2 (Fresh-Moist Tallgrass Prairie Ecosite). These communities must be restored or natural.	Potentia	l habitat does not exist within the Project or 50 m setback.			~				
Specialised Ho	abitat for Wildlife				1		1	1		
		ID	ELC*							
		WNA1	Deciduous Swamp, Deciduous Forest, Mixed Forest	\checkmark	~		~			
	Upland habitats of any kind located adjacent to a wetland. The upland areas should be at least 120 m	WNA2	Deciduous Swamp, Coniferous Forest, Cultural Meadow	\checkmark	~		~			
	wide so predators have difficulty finding nests. The extent of the habitat extends 120 m from a wetland	WNA3	Deciduous Swamp, Cultural Meadow	✓	\checkmark		~			
Waterfowl	>0.5 ha or any small wetland within 120 m of a cluster of 3 or more smaller wetlands (<0.5 ha) within 120 m	WNA4	Cultural Woodland, Coniferous Woodland, Deciduous Swamp	~	~		~			
Nesting Area	of each other where waterfowl nesting occurs. Wood ducks and hooded mergansers utilize large diameter	WNA5	Coniferous Forest, Deciduous Swamp, Deciduous Forest	~	~		~			

Cultural Thicket, Deciduous Swamp,

Coniferous Forest

Deciduous Forest, Cultural Meadow,

Deciduous Swamp

Deciduous Forest; Cultural Meadow;

Deciduous Swamp; Coniferous Forest,

WNA6

WNA7

WNA

(Other)

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

 \checkmark

trees (>40 cm dbh) in woodlands for cavity nest sites.

Species of Conservation Concern:

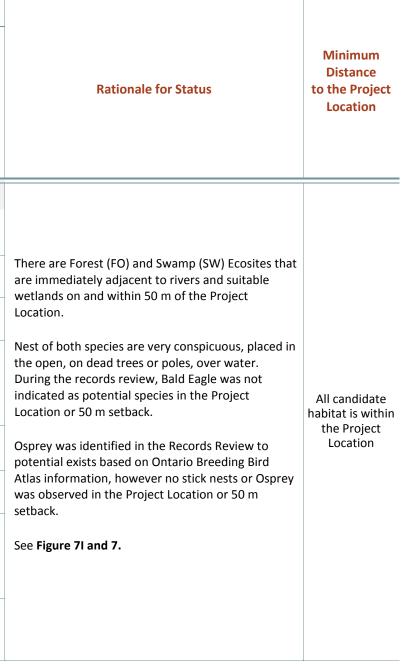
Canvasback

Redhead

Rationale for Status	Minimum Distance to the Project Location
ELC studies did not identify savannahs within the Project Location or 50 m setback.	N/A
ELC studies did not identify tallgrass prairies within the Project Location or 50 m setback.	N/A
Deciduous Swamp (SWD), Meadow Marsh (MAM) and Shallow Marsh (MAS) Ecosites are found within the Project Location and the surrounding 50 m setback. Areas of upland communities (FOD, CUM, FOC) at least 120 m wide adjacent to wetlands (SWD) entirely within the 50 m setback area and therefore considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7H and 7.	All candidate habitats are within the Project Location
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				Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat		Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
		ID	ELC*						
		BEOS1	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	✓	~		✓		
		BEOS2	Please refer to Table 8 for Vegetation Communities associated with Woodland AE	✓	~		~		
	Nests are associated with lakes, ponds, rivers or	BEOS3	Please refer to Table 8 for Vegetation Communities associated with Woodland BI	✓	~		~		
Bald Fagle		BEOS4	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	~	~		~		
and Osprey Nesting,	top of a tree whereas Bald Eagle nests are typically in super canopy trees in a notch within the tree's canopy.	BEOS5	Please refer to Table 8 for Vegetation Communities associated with Woodland BS	✓	~		~		
Foraging and Perching Habitat	Perching included as significant wildlife habitat. Forest (FO), or	BEOS6	Please refer to Table 8 for Vegetation Communities associated with Woodland BT	~	~		~		
		BEOS7	Please refer to Table 8 for Vegetation Communities associated with Woodland CY	✓	~		✓		
		BEOS8	Please refer to Table 8 for Vegetation Communities associated with Woodland I	✓	~		✓		
	В	BEOS9	Please refer to Table 8 for Vegetation Communities associated with Woodland EA	✓	~		✓		
		BEOS (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland CW; W, DY; DR; CZ; CX; CA; BU; BP & BI.		~				~





					Location		Status						
Wildlife Habitat	Definition of Habitat		Habitat Compositi Attributes, Condition and		I	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	Rationale for Status	Minimum Distance to the Project Location
		ID	ELC*	Total Size (ha)	Interior Habitat (ha)			1					
	Stick nests found in a variety of intermediate-aged to mature conifer, deciduous or mixed forests within tops or crotches of trees. Species such as Cooper's Hawk nest along forest edges sometimes on peninsulas or small off-shore islands. In disturbed sites, nests may be used again or a new nest will be in close proximity to the old nest. Can be found in the following ELC communities: Forest (FO), Treed Swamp (SW), Coniferous Plantation (CUP3/TAGM1) that are >30 ha with >10 ha or interior habitat (interior habitat having a 200 m buffer of surrounding woodland and/or forest.	WRN1	Please refer to Table 8 for Vegetation Communities associated with Woodland I	261.96	98.47	~	~		~			Woodlands that occur partially within the Project Location include interior woodland habitat greater than 10 ha in size. See Figure 7J and 7 .	All candidate habitats occur at least partially within the Project Location
Woodland Raptor Nesting Habitat		WRN2	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	1136.01	151.97	~	~		~				
		WRN3	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	1774.24	498.88	~	~		✓				
		WRN (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland AP	83.92	10.27		~				✓		✓
		ID	ELC	•									
Turtle Nesting Areas	For an area to function as a turtle nesting area, it must provide sand and gravel that turtles are able to dig in and are located in open, sunny areas. Nesting areas on the sides of municipal or provincial road embankments and shoulders are not significant wildlife habitat. Sand and gravel beaches adjacent to undisturbed shallow weedy areas of marshes, lakes and rivers are most frequently used. Exposed mineral soil (sand or gravel) areas <100 m from or within the following Community Types: Mineral or Organic Meadow Marsh (MAM or MAO), Shallow Marsh (MAS), Shallow Aquatic (SA), Open Bog (BOO), Open Fen (FEO). Species of Conservation Concern: Northern Map Turtle Common Snapping Turtle	TNA1	Cattail Organic Shal	low Marsh	(37)	~	¥		~			 Exposed sand and gravel substrates in open, sunny areas were not identified <100m from the Meadow Marsh (MAM) or Shallow Marsh (MAO) communities of the Project Location and 50 m setback. Potential habitat exists at TNA1; however the area was not exhaustively searched during the site investigation field survey in 2016 due to health and safety concerns. Therefore this habitat will be carried forward into the <i>NHA EIS</i>. See Figure 7K 	Within the Project Location and 50 m setback boundary



				Loca	ation		St	atus		-	
Wildlife Habitat	Definition of Habitat	A	Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	Rationale for Status	Minimum Distance to the Project Location
Seeps and Springs	Seeps and springs are areas where ground water comes to the surface, often in forested headwater areas. Any forested area (with <25% meadow, field, or pasture) within the headwaters of a stream or river system may have seeps or springs. Presence of a site with 2 or more seeps/springs should be considered SWH.		reas were found during field work within the ack area of the Project Location.		~				V	Three (3) seeps were identified within the 50 m setback area during site investigations and therefore considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7 .	N/A
	Wetlands and pools isolated from woodlands with	ID	ELC*								
Amphibian	presence of shrubs, logs available for calling, foraging, and escape/concealment from predators. Bullfrogs	ABHWE1	Narrow-leaved Sedge Graminoid Mineral Meadow Marsh (32)		✓		~			Swamp (SW) and Marsh (MA) features >500 m ² (~ 25m diameter) isolated from woodlands (>120m) are	
Breeding Habitat (Wetland)	require permanent water bodies with an abundance of emergent vegetation. Associated with any of the following ELC communities: Swamp (SW), Marsh (MA), Fen (FE), Bog (BO), Open Water (OA), Shallow Aquatic (SA), including vernal pools, that are >500 m2 or 25 m in diameter, and located >120 m from woodlands.	ABHW (Other)	Swamp and Marsh communities exist within the Project Location setback		~				V	located on the Project Location and within the 50 m setback area may support breeding amphibians. Areas of Swamp and Marsh located entirely within the Project Location 50 m setback area are considered under Generalized Candidate Significant Wildlife Habitat See Figure 7L and 7.	5 m
		ID	ELC*		1 1			1			
		ABHWO1	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	✓	~		~				
Americais	The presence of a wetland, lake or pond within or	ABHWO2	Please refer to Table 8 for Vegetation Communities associated with Woodland AE, DZ & EA	✓	~		~			Wetlands and ponds were found within or adjacent to the portion of the forests and woodlands that are on the Project Location or within the 50 m setback.	
Amphibian Breeding Habitat	adjacent to (within 120 m) a woodland that contains permanent ponds or contains water in most years until mid-July are most likely to be used as breeding habitat.	ABHWO3	Please refer to Table 8 for Vegetation Communities associated with Woodland B	\checkmark	~		~			Areas of Deciduous Swamp (SWD), Thicket Swamp	All candidate habitat is within
(Woodland)	The sury are most likely to be used as breeding habitat.	ABHWO04	Please refer to Table 8 for Vegetation Communities associated with Woodland BD	\checkmark	✓		✓			(SWT) and Meadow Marsh (MAM) located entirely within the Project Location 50 m setback area are	the Project Location
		ABHWO5	Please refer to Table 8 for Vegetation Communities associated with Woodland BI	√	~		~			considered under Generalized Candidate Significant Wildlife Habitat.	
		ABHWO6	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	√	~		~			See Figure 7M and 7.	
		ABHWO7	Please refer to Table 8 for Vegetation Communities associated with Woodland BS	✓	~		~				
		ABHWO8	Please refer to Table 8 for Vegetation Communities associated with Woodland BT	\checkmark	~		✓				

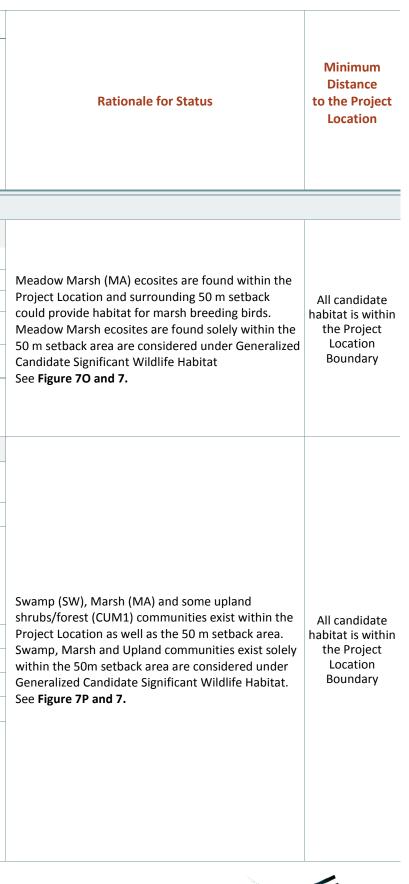


						Loca	ation		St	tatus	
Wildlife Habitat	Definition of Habitat	Å	Habitat Composit Attributes, Condition ar		ı	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
		ABHWO9	Please refer to Tabl Communities associate	-		√	~		✓		
		ABHWO10	Please refer to Tab l Communities associat	-		✓	✓		✓		
_		ABHWO (Other)	Please refer to Tabl Communities associate CY; DB; DN; DP;	d with Woo	odland CX,		~				~
		ID	ELC*	Total Size (ha)	Interior Habitat (ha)						
		ASBB1	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	1774.24	498.88	~	~		~		
	This habitat includes all ecosites associated with Forest	ASBB2	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	1136.01	151.97	~	~		~		
Woodland Area-Sensitive Bird Breeding	(FOC, FOM & FOM) and Swamp (SWC, SWM & SWD). Habitat where interior forest breeding birds are breeding, typically mature (>60 years old) forest stands or woodlots (>30 ha).	ASBB3	Please refer to Table 8 for Vegetation Communities associated with Woodland I	261.96	98.47	\checkmark	~		~		
Habitat	Species of Conservation Concern: Canada Warbler	ASBB4	Please refer to Table 8 for Vegetation Communities associated with Woodland L	132.37	1.58	~	~		~		
		ASBB5	Please refer to Table 8 for Vegetation Communities associated with Woodland AP	83.92	10.27	~	✓		~		
		ASBB (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland CX & DB				✓				✓

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Rationale for Status	Minimum Distance to the Project Location
Woodlands greater than 30 ha with interior forest 200 m from forest edge were found within the Project Location and within the 50 m setback. Woodlands that were found to meet the minimum requirement but solely within the 50 m setback area are considered under Generalized Candidate Significant Wildlife Habitat. See Figure 7N and 7 .	All candidate habitat is within the Project Location boundary



				Loc	ation		St	atus	
Wildlife Habitat	Definition of Habitat		Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant
abitat of Spe	cies of Conservation Concern	<u>'</u>						<u></u>	
	This habitat includes all wetlands as long as there is	ID	ELC*						
	shallow water with emergent aquatic vegetation present. For Green Heron, habitat is at the edge of	MBBH1	Reed Canary Grass Meadow Marsh (31)	✓	✓		✓		
Marsh	water such as sluggish streams, ponds and marshes	MBBH2	Cattail Meadow Marsh (30)	\checkmark	✓		✓		
Breeding	sheltered by shrubs and trees. Less frequently it may	MBBH3	Reed Canary Grass Meadow Marsh (35)	✓	✓		✓		
Bird Habitat	be found in upland shrubs or forest a considerable distance from water. The following ELC communities	MBBH4	Reed Canary Grass Meadow Marsh (31)	\checkmark	✓		~		
General	should be considered: Meadow Marsh (MAM), Shallow Aquatic (SA), Open Bog (BOO), Open Fen (FEO), or for	MBBH5	Cattail Organic Shallow Marsh (37)	✓	✓		✓		
	Green Heron: SW (Swamp), MA (Marsh) and Meadow (ME). Species of Conservation Concern: Black Tern	MBBH (Other)	Meadow Marsh		✓				V
		ID	ELC*		··				
		GRHE1	Black Ash Deciduous Swamp (55); Reed Canary Grass Meadow Marsh (31)	✓	~		~		
		GRHE2	Cattail Meadow Marsh (30)	✓	✓		~		
		GRHE3	Reed Canary Grass Meadow Marsh (35); Green Ash Deciduous Swamp (56); Willow Deciduous Thicket Swamp (62)	✓	~		~		
Marsh		GRHE4	Maple Deciduous Swamp (57); Reed Canary Grass Meadow Marsh (31)	✓	~		~		
Breeding Bird		GRHE5	Mixed Meadow (40)	✓	✓		~		
Habitat		GRHE6	Maple Deciduous Swamp (57)	✓	✓		~		
Green Heron		GRHE7	Deciduous Swamp (60)	\checkmark	✓		~		
		GRHE8	Mixed meadow (40)	\checkmark	✓		~		
		GRHE9	Cattail Meadow Marsh (34); Green Ash Deciduous Swamp (56); Mixed Meadow (41); Maple Deciduous Swamp (60); Bedrock Meadow Marsh (36)	V	~		~		
		GRHE10	Maple Deciduous Swamp (60); Mixed Meadow (41); Graminoid Meadow (39)	✓	~		~		





				Loca	ition		St	atus	
	Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
			GRHE11 Mixed Meadow (40)	✓	✓		✓		
			GRHE12 Cattail Organic Shallow Marsh (37)	✓	✓		✓		
_			GRHE Mixed Meadow (40;41) (Other) Meadow Marsh (31-39) and Deciduous Swamp (54-62)		~				✓
	Open Country Bird Breeding Habitat	Large grassland areas (including natural and cultural fields and meadows) are important to support grassland breeding bird species. Grassland areas > 30 ha, and do not include Class 1 or Class 2 agricultural lands. Habitat does not include fields with row- cropping or intensive hay or livestock pasturing in the last 5 years. This habitat can be found in Meadows (ME).	Potential habitat exists within the Project Location as well as the 50 m setback.			~			
	Shrub/Early Successional Bird Breeding Habitat	Oldfield areas succeeding to shrub and thicket habitats >10 ha, that are not Class 1 or Class 2 agricultural lands, with no row-cropping or intensive hay or livestock pasturing in the last 5 years. This habitat can be found in Thickets (TH; or CUT1 as per the first approximation ELC community code) and Woodland (WOC and RBT; or CUW2 as per first approximation ELC community code). Species of Conservation Concern: Golden-winged Warbler	Potential habitat does not exists within the Project Location as well as the 50 m setback area.			~			
	Terrestrial Crayfish	Terrestrial crayfish are typically found within south- western Ontario in Canada and their habitats are very rare.	Potential habitat exists within the Project Location as well as the 50 m setback area (TC1).	¥	¥		~		

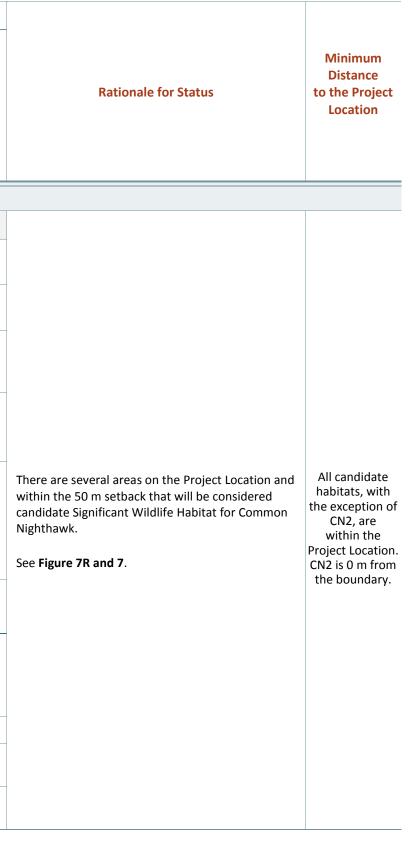
_	
Rationale for Status	Minimum Distance to the Project Location
_	
Large grasslands communities 30 ha or greater that are not being used for row crop, hay fields or livestock pasturing was not observed within the Project Location or 50 m setback area (see Appendix B for ELC polygon sizes).	N/A
Old fields or Meadows (MEG, MEM, CUT1) succeeding thicket communities (TH) >10ha that are not being used for row crop, hay fields or livestock pasturing was not observed within the Project Location or 50 m setback area (see Appendix B for ELC polygon sizes).	N/A
Potential habitat to be considered within the Cattail Marsh community (ELC code MAS3-1) within the Mud Creek PSW) located within Project Location as well as the 50 m setback. See Figure 7Q	Candidate habitat is within the Project Location.



			Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat	Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat

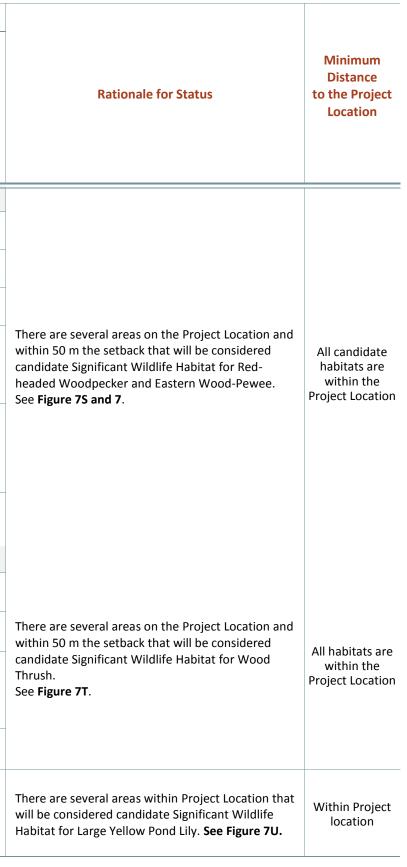
Special Concern and Rare Wildlife Species

		ID	ELC*				
		CN1	Red Cedar Alvar Woodland (51)	√	~	 ~	
		CN2	Red Cedar Alvar Woodland (51)		~	 √	
		CN3	Dry Lichen-Moss Open Alvar Pavement (47); Poverty Grass Open Alvar Meadow (73); Red Cedar Alvar Woodland (51)	✓	✓	 ~	
		CN4	Open Alvar Rock Barren(48); Red Cedar Alvar Woodland (51)	✓	~	 ~	
		CN5	Alvar Shrub Rock Barren (50)	\checkmark	~	 ~	
	Traditional Common Nighthawk habitat consists of open areas with little to no ground vegetation, such as logged	CN6	Alvar Shrub Rock Barren (50)	~	✓	 ~	 -
Common Nighthawk	or burned-over areas, forest clearings, rock barrens, peat bogs, lakeshores, and mine tailings. Although the species also nests in cultivated fields, orchards, urban parks, mine tailings and along gravel roads and railways, they tend to occupy natural sites.	CN7	Sugar Maple-Hardwood Calcareous Shallow Deciduous Forest (72); Fresh Poplar Mixed Forest (27); Alvar Shrub Rock Barren (50); Red Cedar Alvar Woodland (51)	✓	~	 ~	 -
		CN8	Red Cedar Alvar Woodland (51)	\checkmark	✓	 ✓	 -
		CN9	Red Cedar Alvar Woodland (51)	\checkmark		 ✓	 -
		CN10	Red Cedar Alvar Woodland (51); Bedrock Mixed Meadow (42)	√	~	 ~	 -
		CN11	White Cedar Calcareous Bedrock Coniferous Forest (11)	√	~	 ~	 -
		CN12	Bedrock Mixed Meadow (42)	\checkmark	~	 ✓	 -
		CN13	Red Cedar Alvar Woodland (51); Open Alvar Rock Barren (48)	✓	~	 ~	 -
		CN (Other)	Red Cedar Alvar Woodland (51); Dry Lichen- Moss Open Alvar Pavement(47)		~	 	



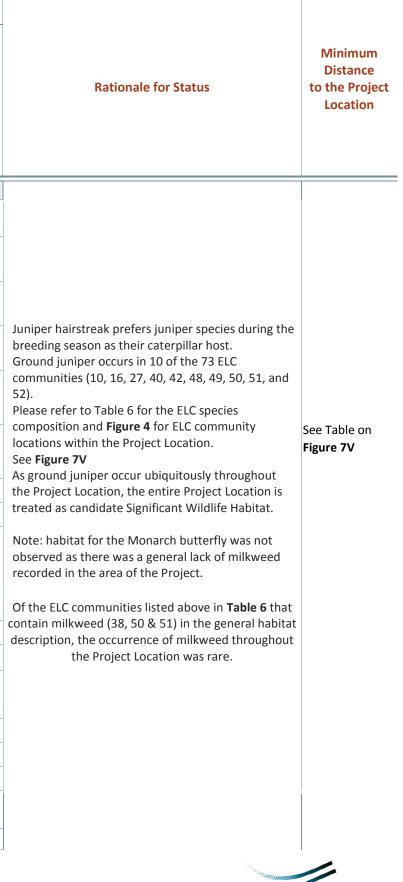


				Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat	£	Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
		ID	ELC*						
	Species of Conservation Concern: <u>Red-headed Woodpecker (RHWO)</u>	RHWO1 EAWO1	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	√	~		~		
		RHWO2 EAWP2	Please refer to Table 8 for Vegetation Communities associated with Woodland AD	\checkmark	~		\checkmark		
Woodland	The Red-headed Woodpecker lives in open deciduous woodland and woodland edges with oak, oak-hickory,	RHWO3 EAWP3	Please refer to Table 8 for Vegetation Communities associated with Woodland AE	\checkmark	~		~		
Specific Bird Species of	and maple. They are often found in parks, golf courses and cemeteries. These areas typically have many dead trees, which the bird uses for nesting and perching.	RHWO4 EAWP4	Please refer to Table 8 for Vegetation Communities associated with Woodland I	\checkmark	✓		~		
Special Concern	They require cavity trees with at least a 40 cm dbh and 4 ha for a territory.	RHWO5 EAWP5	Please refer to Table 8 for Vegetation Communities associated with Woodland L	\checkmark	~		~		
	Eastern Wood-Pewee (EAWP)	RHWO6 EAWP6	Please refer to Table 8 for Vegetation Communities associated with Woodland F	~	✓		~		
	The Eastern Wood-Pewee lives in forest clearings and forest edges predominated by oak with little	RHWO7 EAWP7	Please refer to Table 8 for Vegetation Communities associated with Woodland B	\checkmark	✓		~		
	understory including mature woodlands, roadsides, woodlots, farm woodlots and orchards.	RHWO EAWP (Other)	Please refer to Table 8 for Vegetation Communities associated with Woodland AB, BD & Cl	√	~				~
		ID	ELC*						
		WOTH1	Please refer to Table 8 for Vegetation Communities associated with Woodland BM	√	~		~		
Wood Thrush	The Wood Thrush lives in Carolinian and Great Lakes-St. Lawrence forest zones with undisturbed moist mature	WOTH2	Please refer to Table 8 for Vegetation Communities associated with Woodland BI	\checkmark	~		~		
mush	deciduous or mixed forest with deciduous sapling growth. Habitat is generally near ponds or swamps	WOTH3	Please refer to Table 8 for Vegetation Communities associated with Woodland AE	\checkmark	~		\checkmark		
	along hardwood forest edges.	WOTH4	Please refer to Table 8 for Vegetation Communities associated with Woodland I	~	~		~		
		WOTH5	Please refer to Table 8 for Vegetation Communities associated with Woodland B	\checkmark	~		~		
Large Yellow Pond Lily	Habitat of this species includes alkaline and neutral water 0.5 to 2 m deep. Blooming occurs from May to October, particularly opening in the morning and closing at night.		habitat exists in the OAO: Open Aquatic Area the 50m setback of the Project Location.	✓	V		~		



DILLON CONSULTING

				Loca	ation		St	atus	
Wildlife Habitat	Definition of Habitat		Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat
		ID	ELC*						
		JH1	Mixed Meadow (40); Bedrock Mixed Meadow (42)	√	✓		~		
		JH2	Bedrock Mixed Meadow (42)	✓	✓		✓		
		JH3	Bedrock Mixed Meadow (42)	\checkmark	✓		✓		
		JH4	Mixed Meadow (40)	\checkmark	✓		\checkmark		
		JH5	Mixed Meadow (40)	\checkmark	✓		✓		
		JH6	Red Cedar Alvar Woodland (51)	\checkmark	\checkmark		\checkmark		
		JH7	Red Cedar Alvar Woodland (51)		✓		✓		
		JH8	Red Cedar Alvar Woodland (51); Alvar Rock Barren (48); White Cedar Coniferous Forest (10)		✓		✓		
Butterfly Species of Special	Species of Conservation Concern: Juniper Hairstreak (JH) The habitat of this species includes old fields, bluffs,	JH9	Red Cedar Alvar Woodland (51); Bedrock Mixed Meadow (42); Poplar Mixed Forest (27); Alvar Shrub Rock Barren (50)		~		~		
Concern	barrens, juniper and cedar breaks. This species prefers	JH10	Bedrock Mixed Meadow (42)	\checkmark	✓		✓		
	juniper species during the breeding season as their caterpillar host.	JH11	Alvar Shrub Rock Barren (50)	\checkmark	✓		\checkmark		
		JH12	Alvar Shrub Rock Barren (50)	✓	✓		✓		
		JH13	Alvar Shrub Rock Barren (50); Alvar Cedar Alvar Woodland (51); Open Alvar Rock Barren (48); Red Cedar Treed Alvar (52); Poplar Mixed Forest (27)	✓	~		~		
		JH14	Alvar Cedar Alvar Woodland (51);	\checkmark	\checkmark		\checkmark		
		JH15	Poplar Mixed Forest (27)		✓		✓		
		JH16	Mixed Meadow (40)	\checkmark	~		~		
		JH17	Red Cedar Alvar Woodland (51)	\checkmark	~		\checkmark		
		JH18	Red Cedar Alvar Woodland (51)		✓		✓		
		JH19	Bedrock Mixed Meadow (42)		✓		\checkmark		
		JH20	Mixed Meadow (40)		~		~		
		JH21	Common Juniper Shrub Alvar (49); Sugar Maple-Ironwood Deciduous Forest (16)	✓	~		✓		
		JH22	Mixed Meadow (40)	\checkmark	\checkmark		\checkmark		





				Loca	ation		St	atus		_	
Wildlife Habitat	Definition of Habitat	A	Habitat Composition: Attributes, Condition and Function	Within Project Location	Within 50 m of Project Location	Not Applicable	Candidate	Previously Evaluated Significant	Generalized Candidate Significant Wildlife Habitat	Rationale for Status	Minimum Distance to the Projec Location
		JH23	Red Cedar Alvar Woodland (51); Sugar Maple-Ironwood Deciduous Forest (16)	✓	✓		✓				
		JH24	Bedrock Mixed Meadow (42)	✓	✓		✓			-	
		JH25	Mixed Meadow (40)		✓		✓				
		JH26	Mixed Meadow (40)	✓	✓		✓				
		JH27	Mixed Meadow (40)		\checkmark		✓				
		JH28	Mixed Meadow (40)		✓		\checkmark				
Amphibians	Corridors are determined based on the identification of significant breeding habitat for amphibians. Movement corridors between breeding habitat and summer habitat must be determined when amphibian breeding habitat is confirmed as significant wildlife habitat. Corridors may be found in all ecosites associated with water. Corridors should be at least 200 m wide with gaps <20 m, and, if following riparian area, with at least 15 m of vegetation on both sides of waterway.	and 50 m wetland a from a wo would be wetland a Please not once weth evaluated habitat is	habitat exists both within the Project Location setback between where a unit of candidate mphibian breeding habitat occurs in isolation odland. The candidate amphibian corridor the space between the woodland and the mphibian breeding habitat. te, amphibian corridors are only considered and Amphibian Breeding Habitat has been as significant. Until this type of wildlife evaluated, amphibian corridors are carried a this NHA as candidate.	*			~			There are areas within the Project Location and 50 m setback area between candidate wetland amphibian breeding habitats and woodland habitat that may be suitable amphibian movement corridors. These candidate habitats cannot be assessed until further studies confirm the significance of the candidate wetland Amphibian Breeding Habitats. Based on this, candidate amphibian corridors will be brought forward as candidate Significant Wildlife Habitat. See Figure 7W .	Within the Project Locati
Deer	Movement corridors must be determined when deer wintering habitat is confirmed as significant wildlife habitat. Corridors may be found in all forested ecosites. Corridors typically follow riparian areas, woodlots, and areas of physical geography (ravines or ridges). Corridors that lead to a deer wintering yard should be unbroken by roads and residential areas, and should be at least 200 m wide with games <20m, and, if following riparian area, with at least 15 m of vegetation on both sides of waterway.		nabitat does not exist within the Project r 50 m setback.	N/A		¥				MNR did not identify significant deer wintering areas in or within 50 m of the Project Location or 50 m setback, thus deer movement corridors are not located within the Project Location or 50 m setback. Deer winter congregation area was carried forward for Site Investigation, however corridor characteristics connecting this wildlife habitat to other deer habitat area absent (ex. riparian areas, ravines, ridges, corridor routes unbroken by roads and residential areas, etc.)	N/A

* Refer to **Table 6** for Ecosystem Land Classification (ELC) Attributes Condition, Function and Vegetation Composition.



Of the wildlife habitat reviewed during the site investigation work, the following habitats have been determined to be *candidate significant wildlife habitat*:

Seasonal Concentration Areas:

- Waterfowl Stopover and Staging Areas (Terrestrial)
- Waterfowl Stopover and Staging Areas (Aquatic)
- Turtle Wintering Area
- Reptile Hibernaculum
- Colonially Nesting Bird Breeding Habitat (Tree/Shrub)
- Colonially Nesting Bird Breeding Habitat (Ground)

Rare Vegetation Communities:

- Alvar
- Old Growth Forest

Specialised Habitats for Wildlife:

- Waterfowl Nesting Area
- Bald Eagle & Osprey Nesting, Foraging and Perching Habitat
- Woodland Raptor Nesting Habitat
- Turtle Nesting Areas
- Amphibian Breeding Habitat (Wetland)
- Amphibian Breeding Habitat (Woodland)
- Woodland Area-Sensitive Bird Breeding Habitat

Habitat of Species of Conservation Concern:

- Marsh Breeding Bird Habitat (General)
- Marsh Breeding Bird Habitat (Green Heron)
- Terrestrial Crayfish

Special Concern and Rare Wildlife Species:

- Common Nighthawk
- Woodland Specific Bird Species of Special Concern (Red-headed Woodpecker; Eastern Wood-Pewee)
- Wood Thrush
- Large Yellow Pond Lily
- Butterfly Species of Conservation Concern

Animal Movement Corridors

• Amphibians

Other wildlife habitat that are located entirely outside of the Project Location but occur at least partially within the 50 m setback area and are not likely to be affected by Project components typically found within a solar facility will be categorized as "Generalized Candidate Significant Wildlife Habitat", as outlined in *Appendix D* of the Natural Heritage Assessment Guide for Renewable Energy Projects (MNRF 2012), and will be treated as significant in the subsequent *NHA Evaluation of Significance Report*.



8.0 Summary of Amendments to the Records Review

Based on the results of the site investigations, the boundaries and extent of all natural features were confirmed and/ or refined. From a comparison of the features identified during the records review and the observations made during the site investigation, there are amendments required with respect to the natural features determined to exist within the Project Location and 50 m setback. These amendments apply to the size and location of woodland and wetland features and the addition of candidate and generalized candidate significant wildlife habitat. These amendments have been made to the mapping prepared during the records review (**Figure 3**).

Table 10 identifies any necessary corrections to the determinations made during the *NHA Records Review Report*, including the addition of natural features, the absence of natural features identified during the records review, and the amendments to boundaries of relevant natural features located within 50 m of the Project Location.



Sumr	Change in Distance Relative to Project Location?	Source of Information for Amendment	Amendment to Records Review Required?	Identified During Records Review?	Natural Feature ID
					Vetlands
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #1
Boundaries of wetland revised. Proje	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Hinch Swamp Complex PSW #4
Wetland determined to not exist as Feature	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #5
Wetland determined to not exist as Feature	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #10
Boundaries of wetland revised. Proje	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Mud Creek PSW Wetland #11
Wetland determined to not exist as Feature	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #13
Wetland determined to not exist as Feature	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #14
Wetland determined to not exist as Feature	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #15
Boundary revised	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #17
Boundary revised and	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #18
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #19
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #20
Boundary revised.	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #21
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #22
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #23
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #25
Bound	No	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #26
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #28
Boundaries of wetland r	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #30
Boundaries of wetland	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #31
Bound	No	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #33
Bound	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #34
Wetland determined to not exist as	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #37
Boundary revised	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #38

mapped within Project Location or surrounding 50 m.

ct Location boundary amended to exclude this feature.

mapped within Project Location or surrounding 50 m. reclassified as woodland.

mapped within Project Location or surrounding 50 m. reclassified as woodland.

ct Location boundary amended to exclude this feature.

mapped within Project Location or surrounding 50 m. reclassified as woodland.

mapped within Project Location or surrounding 50 m. reclassified as woodland.

mapped within Project Location or surrounding 50 m. reclassified as woodland.

Wetland now part of Wetland 18.

nerged with Wetlands 17, 21, 38 and 39.

mapped within Project Location or surrounding 50 m.

mapped within Project Location or surrounding 50 m.

Woodland now part of Wetland 18.

mapped within Project Location or surrounding 50 m.

mapped within Project Location or surrounding 50 m.

mapped within Project Location or surrounding 50 m.

aries of wetland revised.

mapped within Project Location or surrounding 50 m.

evised. No longer within Project Location.

evised. No longer within Project Location.

aries of wetland revised.

aries of wetland revised.

mapped within Project Location or surrounding 50 m.

Wetland now part of Wetland 18.



Summa	Change in Distance Relative to Project Location?	Source of Information for Amendment	Amendment to Records Review Required?	Identified During Records Review?	Natural Feature ID
Boundary revised. \	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #39
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #40
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Roblin Swamp Wetland #41
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #42
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #43
Ameno	Yes	NHA SI Wetland Delineation Field Survey	No	Yes	Unevaluated Wetland #44
Ameno	Yes	NHA SI Wetland Delineation Field Survey	No	Yes	Unevaluated Wetland #45
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #48
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #49
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #54
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #56
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #57
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #58
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #60
Boundari	No	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #61
Boundari	No	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #62
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #71
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #72
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #73
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #75
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #77
Boundari	No	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #78
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #79
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #80
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #83
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #85
Boundari	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #86
Boundari	No	NHA SI Wetland Delineation Field Survey	Yes	Yes	Pennell's Creek PSW #88
Wetland determined to not exist as ma	Yes	NHA SI Wetland Delineation Field Survey	Yes	Yes	Unevaluated Wetland #90

Wetland now part of Wetland 18.

aries of wetland revised.

aries of wetland revised.

mapped within Project Location or surrounding 50 m.

aries of wetland revised.

ndment not required.

ndment not required.

mapped within Project Location or surrounding 50 m.

aries of wetland revised.

aries of wetland revised.

mapped within Project Location or surrounding 50 m.

aries of wetland revised.

mapped within Project Location or surrounding 50 m.

mapped within Project Location or surrounding 50 m.

aries of wetland revised.

aries of wetland revised.

aries of wetland revised.

aries of wetland revised.

mapped within Project Location or surrounding 50 m.



Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
Unevaluated Wetland #91	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Wetland determined to not exist as mapped within Project Location or surrounding 50 m.
Unevaluated Wetland #92	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #94	Yes	Yes	NHA SI Wetland Delineation Field Survey	No	Boundaries of wetland revised.
Unevaluated Wetland #96	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised.
Unevaluated Wetland #97	Yes	Yes	NHA SI Wetland Delineation Field Survey	Yes	Boundaries of wetland revised. Included in 96.
Unevaluated Wetland #99	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #100	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #101	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #102	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #103	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Mud Creek PSW Wetland #104	Yes	Yes	NHA SI Wetland Delineation Field Survey	N/A	Boundaries of wetland revised. Previously combined with Wetland #4
Unevaluated Wetland #105	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #106	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #108	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #109	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #110	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #111	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #112	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #113	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #114	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #115	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #116	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #117	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #118	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #119	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #120	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #121	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #122	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland
Unevaluated Wetland #123	No	Yes	NHA SI Wetland Delineation Field Survey	N/A	Addition of a previously unmapped unevaluated wetland



Summai	Change in Distance Relative to Project Location?	Source of Information for Amendment	Amendment to Records Review Required?	Identified During Records Review?	Natural Feature ID
Addition of a previously	N/A	NHA SI Wetland Delineation Field Survey	Yes	No	Unevaluated Wetland #124
Addition of a previously	N/A	NHA SI Wetland Delineation Field Survey	Yes	No	Unevaluated Wetland #125
Addition of a previously	N/A	NHA SI Wetland Delineation Field Survey	Yes	No	Biddy's Lake PSW #126
Addition of a previously	N/A	NHA SI Wetland Delineation Field Survey	Yes	No	Unevaluated Wetland #127
				-	/oodlands
Woodland confirmed to not occu	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AA
Boundary revised. Include	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AB
Boundary revised. Wo	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AC
Boundary revised and merged wi	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AD
Boundary revised and	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AE
Boundary revised. W	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AH
Woodland confirmed to not occu	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AI
Boundary revised. W	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AJ
Boundary revised. Wo	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AL
Boundary revised. Wo	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AO
Во	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AP
Во	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AQ
Woodland confirmed to not occu	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AS
Woodland confirmed to not occu	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AT
Woodland confirmed to not occu	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AV
Boundary revised. Wo	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	AW
Boundary revised. Wo	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AX
Boundary revised. Wo	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	AZ
Во	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	В
Boundary revised. Wo	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	ВА
Woodland confirmed to not occu	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	BB
Во	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	BC
Во	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	BD
Boundary revised. Wo	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	BE

- sly unmapped unevaluated wetland
- cur within Project Location or surrounding 50 m.
- les Woodland previously identified as AC.
- Noodland now part of Woodland AB.
- with Woodlands AL, AO, AW, AX, AZ, BA and BE.
- d merged with Woodlands AH and AJ.
- Noodland now part of Woodland AE
- cur within Project Location or surrounding 50 m.
- Woodland now part of Woodland AE
- Voodland now part of Woodland AD.
- Noodland now part of Woodland AD.
- Boundary revised.
- Boundary revised.
- cur within Project Location or surrounding 50 m.
- cur within Project Location or surrounding 50 m.
- cur within Project Location or surrounding 50 m.
- Noodland now part of Woodland AD.
- Voodland now part of Woodland AD.
- Noodland now part of Woodland AD.
- Boundary revised.
- Noodland now part of Woodland AD.
- cur within Project Location or surrounding 50 m.
- Boundary revised.
- Boundary revised.
- Voodland now part of Woodland AD.



Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summary of Amendments
BF	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BG	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BH	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BI	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised.
BL	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Woodland confirmed to not occur within Project Location or surrounding 50 m.
BM	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised and merged with Woodlands BN, BO, CD, CE, CF, CH, CJ, CK, CL, CM, CO, CR, CS, CU, and C
BN	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
ВО	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
BP	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
BS	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
ВТ	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised
BU	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised
CA	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
CD	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CE	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CF	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
СН	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CI	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
CJ	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
СК	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CL	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CM	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CN	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised
CO	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CR	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CS	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CU	Yes	Yes	NHA SI Woodland Delineation Field Survey	Yes	Boundary revised. Woodland now part of Woodland BM.
CV	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised. Woodland now part of Woodland BM.
CW	Yes	Yes	NHA SI Woodland Delineation Field Survey	No	Boundary revised



Summar	Change in Distance Relative to Project Location?	Source of Information for Amendment	Amendment to Records Review Required?	Identified During Records Review?	Natural Feature ID
Во	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	СХ
Во	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	CY
Во	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	CZ
Во	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	F
Boundary revised	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	I
Boundary revised. W	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	J
Boundary revised and m	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	L
Boundary revised. W	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	Μ
Boundary revised. W	No	NHA SI Woodland Delineation Field Survey	Yes	Yes	Ν
Boundary revised. W	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	0
No longer within the Pr	Yes	NHA SI Woodland Delineation Field Survey	N/A	Yes	Р
Woodland confirmed to not occur	Yes	NHA SI Woodland Delineation Field Survey	Yes	Yes	т
No longer within the Pr	Yes	NHA SI Woodland Delineation Field Survey	N/A	Yes	W
No longer within the Pr	Yes	NHA SI Woodland Delineation Field Survey	N/A	Yes	Х
No longer within the Pr	Yes	NHA SI Woodland Delineation Field Survey	N/A	Yes	Y
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DB
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DD
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DF
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DI
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DL
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DM
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DN
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DO
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DP
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DQ
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DR
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DS
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DT
Addition of prev	N/A	NHA SI Woodland Delineation Field Survey	Yes	No	DU

Boundary revised
Boundary revised
Boundary revised
oundary revised.
ed and merged with Woodland J
Woodland now part of Woodland I.
merged with Woodlands M, N and O.
Woodland now part of Woodland L.
Woodland now part of Woodland L.
Woodland now part of Woodland L.
Project Location or surrounding 50 m.
ur within Project Location or surrounding 50 m.
Project Location or surrounding 50 m.
Project Location or surrounding 50 m.
Project Location or surrounding 50 m.
eviously unmapped woodland.



Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summar
DV	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of prev
DX	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of prev
DY	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previo
DZ No Y		Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previo
EA	No	Yes	NHA SI Woodland Delineation Field Survey	N/A	Addition of previo
Wildlife Habitat	<u> </u>				
Seasonal Concentration Areas					
Waterfowl Stopover and Staging Areas (Terrestrial)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat the Project Location. Candidate Significant W (Terrestrial) within 50 m of the Project Location ha
Waterfowl Stopover and Staging Areas (Aquatic)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habita the Project Location. Candidate Significant Wildlif within 50 m of the Project Location has been inc
Shorebird Migratory Stopover Areas	No	Yes	Site Investigation	N/A	Candidate habitat does not exist
Raptor Wintering Area	No	No	Site Investigation	N/A	Candidate habitat does not exist
Bat Hibernacula	No	No	Site Investigation	N/A	Candidate habitat does not exist
Bat Maternity Colonies	No	No	Site Investigation	N/A	Candidate habitat does not exist
Turtle Wintering Areas	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habi Candidate Significant Wildlife Habitat for Turtle V included as well as Generalize
Reptile (Snake) Hibernaculum	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Hab Candidate Significant Wildlife Habitat for Reptile line that is part of the Project Location has been i
Colonially- Nesting Bird Breeding Habitat (Bank and Cliff)	No	No	Site Investigation	N/A	Candidate habitat does not exist
Colonially- Nesting Bird Breeding Habitat (Tree/ Shrubs)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habita within the Proje
Colonially- Nesting Bird Breeding Habitat (Ground)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat the Project L
Deer Winter Congregation Areas	No	No	Site Investigation	N/A	Candidate habitat does not exist

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itat for Waterfowl Stopover and Staging Areas (Aquatic) within llife Habitat for Waterfowl Stopover and Staging Areas (Aquatic) included as Generalized Candidate Significant Wildlife Habitat.

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abitat for Turtle Wintering Areas within the Project Location. e Wintering Areas within 50 m of the Project Location has been lized Candidate Significant Wildlife Habitat.

abitat for Reptile Hibernaculum within the Project Location. tile Hibernaculum within 50 m of an overhead or underground n included as Generalized Candidate Significant Wildlife Habitat

ist within the Project Location or 50 m setback.

tat for Colonially- Nesting Bird Breeding Habitat (Tree/ Shrubs) oject Location or within 50 m.

at for Colonially- Nesting Bird Breeding Habitat (Ground) within t Location or within 50 m .

ist within the Project Location or 50 m setback.



Natural Feature ID	Identified During Records Review?	Amendment to Records Review Required?	Source of Information for Amendment	Change in Distance Relative to Project Location?	Summa
Rare Vegetation Communities					
Cliffs and Talus Slopes	No	No	Site Investigation	N/A	Candidate habitat does not exist
Sand Barren	No	No	Site Investigation	N/A	Candidate habitat does not exist
Alvar	Yes	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habi
Old Growth Forest	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habita
Savannah	No	No	Site Investigation	N/A	Candidate habitat does not exist
Tallgrass Prairie	No	No	Site Investigation	N/A	Candidate habitat does not exist
Specialised Habitat for Wildlife					
Waterfowl Nesting Area	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habitat Significant Wildlife Habitat for Waterfowl Nesti Generalized Candic
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habit Habitat within the Project Location. Candidate S Foraging and Perching Habitat within 50 m of the Significa
Woodland Raptor Nesting Habitat	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habit Significant Wildlife Habitat for Raptor Nesting Generalized Candic
Turtle Nesting Areas	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Ha
Seeps and Springs	No	Yes	Site Investigation	N/A	Candidate Significant Wildlife Habitat for Seep included as Generalized (
Amphibian Breeding Habitat (Wetland)	No	Yes	Site Investigation	N/A	Addition of Candidate Significant Wildlife Habita setback of the Project Location where roads ma Amphibian Breeding Habitat (Wetland) within 5 been included as Generalize
Amphibian Breeding Habitat (Woodland)	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habitat Location and/or 50 m where roads may be cons Breeding Habitat (Woodland) within 50 m of c included as Generalized (
Woodland Area-Sensitive Bird Breeding Habitat	No	Yes	Site Investigation	Yes	Addition of Candidate Significant Wildlife Habit Project Location. Candidate Significant Wildlife within 50 m of the Project Location has been in

- ist within the Project Location or 50 m setback.
- ist within the Project Location or 50 m setback.
- abitat for Alvar within the Project Location and 50 m setback.
- tat for Old Growth Forest within the Project Location and 50 m setback.
- ist within the Project Location or 50 m setback.
- ist within the Project Location or 50 m setback.
- at for Waterfowl Nesting within the Project Location. Candidate sting within 50 m of the Project Location has been included as didate Significant Wildlife Habitat.
- bitat for Bald Eagle and Osprey Nesting, Foraging and Perching e Significant Wildlife Habitat for Bald Eagle and Osprey Nesting, he Project Location has been included as Generalized Candidate ficant Wildlife Habitat.
- bitat for Raptor Nesting within the Project Location. Candidate ing within 50 m of the Project Location has been included as didate Significant Wildlife Habitat.
- Habitat for Turtle Nesting Area within the Project Location.
- eps and Springs within 50 m of the Project Location has been I Candidate Significant Wildlife Habitat.
- itat for Amphibian Breeding Habitat (Wetland) within the 50 m may be constructed. Candidate Significant Wildlife Habitat for 50 m of other Project components in the Project Location has ized Candidate Significant Wildlife Habitat.
- It for Amphibian Breeding Habitat (Woodland) within the Project Instructed. Candidate Significant Wildlife Habitat for Amphibian f other Project components in the Project Location has been d Candidate Significant Wildlife Habitat.
- bitat for Woodland Area-Sensitive Bird Breeding Habitat within fe Habitat for Woodland Area-Sensitive Bird Breeding Habitat included as Generalized Candidate Significant Wildlife Habitat.



Summ	Change in Distance Relative to Project Location?	Source of Information for Amendment	Amendment to Records Review Required?	Identified During Records Review?	Natural Feature ID
_				on Concern	Habitat of Species of Conservati
Addition of Candidate Significant Wildlife Habit	Yes	Site Investigation	Yes	No	Marsh Breeding Bird Habitat
Candidate habitat does not ex	N/A	Site Investigation	No	No	Open Country Bird Breeding Habitat
Candidate habitat does not ex	N/A	Site Investigation	No	No	Shrub/Early Successional Bird Breeding Habitat
Addition of Candidate Significant Wildlife	N/A	Site Investigation	Yes	No	Terrestrial Crayfish
				fe Species	Special Concern and Rare Wildli
Addition of Candidate Significant Wildlife H Candidate Significant Wildlife Habitat for Com exception of CN2, has been included as Genera Proje	Yes	Site Investigation	Yes	No	Common Nighthawk
Addition of Candidate Significant Wildlife Habita the Project Location. Candidate Significant Wi Pewee where the dripline is within the Pr development, has been included as	Yes	Site Investigation	Yes	No	Woodland Specific Bird Species of Special Concern (Redheaded Woodpecker and Eastern Wood- Pewee)
Addition of Candidate Significant Wildlife Ha Significant Wildlife Habitat for Wood Thrus Generalized Canc	Yes	Site Investigation	Yes	No	Wood Thrush
Addition of Candidate Significant Wildlife Ha	Yes	Site Investigation	Yes	No	Large Yellow Pond Lily
Addition of Candidate Significant Wildlife Hal	N/A	Site Investigation	Yes	No	Butterfly Species of Conservation Concern
				· · · ·	Animal Movement Corridors
Addition of Candidate Significant Wildlife H	Yes	Site Investigation	Yes	No	Amphibians Movement Corridors
Candidate habitat does not ex	N/A	Site Investigation	No	No	Deer Movement Corridors

tat for Marsh Breeding Bird Habitat within the Project Location.

kist within the Project Location or 50 m setback.

kist within the Project Location or 50 m setback.

Habitat for Terrestrial Crayfish within the Project Location.

Habitat for Common Nighthawk within the Project Location. mmon Nighthawk within 50 m of the Project Location, with the alized Candidate Significant Wildlife Habitat. CN2 is 0 m from the ect Location boundary.

tat for Redheaded Woodpecker and Eastern Wood-Pewee within /ildlife Habitat for Redheaded Woodpecker and Eastern Woodroject Location, but Woodlands would not be impacted by is Generalized Candidate Significant Wildlife Habitat.

abitat for Wood Thrush within the Project Location. Candidate ish within 50 m of the Project Location has been included as didate Significant Wildlife Habitat.

labitat for Large Yellow Pond Lily within the Project Location.

bitat for Butterfly Species of Conservation Concern within the Project Location.

Habitat for Amphibian Movement Corridor within the Project Location.

kist within the Project Location or 50 m setback.



9.0 Conclusion

This report is intended to fulfill requirements for the *NHA Site Investigation Report* under *Ontario Regulation 359/09*. Based on the results of the site investigations, this report identified the accuracy of the records review, the addition of any previously unidentified natural features, the boundaries of natural features located within 50 m of the Project Location, and the distance of the natural feature from the Project Location (**Figures 7A-7W**).

This *NHA Site Investigation Report* is the second report in a series that will fulfill the *NHA* component of the REA process. Site investigations were carried out based on the results of a completed records review as well as consultation with the MNRF. Applicable natural features identified as being within the Project Location or surrounding 50 m will require an evaluation of significance based on information confirmed during the records review, site investigation and in consultation with appropriate agencies. The natural features applicable to the Project are identified in **Table 11** and will be evaluated in the *NHA Evaluation of Significance Report*.

LOYALIST SOLAR LP Natural Heritage Assessment Site Investigation Report Loyalist Solar Project January 2017 – 16-3674

Table 11: Identified Natural Features Associated with the Project Location and Surrounding 50 m

		Relation to Location	Evaluation of Significance Status			
Natural Feature ID	Within	Within Prescribed Setback (50 m)	Requires Evaluation	Previously Evaluated	Evaluation not Required*	
Wetlands						
Mud Creek Provincially Significant Wetland (11, 104)	Yes	Yes	No	Yes	N/A	
Hinch Swamp Complex Provincially Significant Wetland (4)	No	Yes	No	Yes	N/A	
Pennell's Creek Provincially Significant Wetland (88)	No	Yes	No	Yes	N/A	
Biddy's Lake Provincially Significant Wetland (94)	No	Yes	No	Yes	N/A	
Jnevaluated Southern Wetlands (18, 33, 41, 49, 92, 111, 113, 114, 121, 124)	Yes	Yes	Yes	No	N/A	
Jnevaluated Southern Wetlands (26, 30, 31, 34, 40, 43, 44, 45, 54, 61, 62, 71, 72, 73, 75, 77, 78, 83, 85, 86, 96, 99, 100, 101, 102, 103, 105, 106, 108, 109, 110, 112, 115, 116, 117, 118, 119, 120, 122, 123, 125, 126, 127)	No	Yes	Yes**	No	N/A	
Woodlands						
Jnevaluated Southern Woodlands (AD, AE, AP, B, BD, BH, BI, BM, BS, BT, CI, CY, DB, DD, DF, DI, DL, DZ, EA, F, I, L)	Yes	Yes	Yes	No	N/A	
Jnevaluated Southern Woodlands (AB, AQ, BC, BF, BG, BP, BU, CA, CN, CW, CX, CZ, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DX, DY)	No	Yes	Yes	No	N/A	
Candidate Significant Wildlife Habitat						
Seasonal Concentration Areas						
Waterfowl Stopover and Staging Areas (Terrestrial; WSST1-10)	Yes	Yes	Yes	No	N/A	
Waterfowl Stopover and Staging Areas (Aquatic; WSSA1-4)	Yes	Yes	Yes	No	N/A	
Turtle Wintering Areas (TWA1)	Yes	Yes	Yes	No	N/A	
Reptile Hibernaculum (RH1-16)	Yes	Yes	Yes	No	N/A	
Colonially Nesting Bird Breeding Habitat (Trees/ Shrubs; CNT1-28)	Yes	Yes	Yes^	No	N/A	
Colonially Nesting Bird Breeding Habitat (Ground; CNG1-16)	Yes	Yes	Yes	No	N/A	



		n Relation to t Location	Si	Evaluation of Significance Status		
Natural Feature ID	Within	Within Prescribed Setback (50 m)	Requires Evaluation	Previously Evaluated	Evaluation not Required*	
Rare Vegetation Communities						
Alvar (ALV1-21)	Yes	Yes	Yes	No	N/A	
Old Growth Forest (OG1-7)	Yes	Yes	Yes	No	N/A	
Specialized Habitat for Wildlife						
Waterfowl Nesting Area (WNA1-7)	Yes	Yes	Yes	No	N/A	
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat (BEOS1-9)	Yes	Yes	Yes	No	N/A	
Turtle Nesting Areas (TNA1)	Yes	Yes	Yes	No	N/A	
Amphibian Breeding Habitat (Wetland; ABHWE1)	No	Yes	Yes	No	N/A	
Amphibian Breeding Habitat (Woodland; ABHWO1-10)	Yes	Yes	Yes	No	N/A	
Woodland Area-Sensitive Bird Breeding Habitat (ASBB1-5)	Yes	Yes	Yes	No	N/A	
Woodland Raptor Nesting Habitat (WRN1-3)	Yes	Yes	Yes	No	N/A	
Habitat of Species of Conservation Concern						
Marsh Breeding Bird Habitat (MBBH1-5)	Yes	Yes	Yes	No	N/A	
Marsh Breeding Bird Habitat (GRHE1-12)	Yes	Yes	Yes	No	N/A	
Terrestrial Crayfish (TC1)	Yes	Yes	Yes	No	N/A	
Common Nighthawk (CN1-13)	Yes	Yes	Yes	No	N/A	
Woodland Specific Bird Species of Special Concern (RHWO and EAWP 1-7)	Yes	Yes	Yes	No	N/A	
Wood Thrush (WOTH1-5)	Yes	Yes	Yes	No	N/A	
Large Yellow Pond Lily	Yes	Yes	Yes	No	N/A	
Butterfly Species of Conservation Concern (JH1- 28)	Yes	Yes	Yes	No	N/A	



		n Relation to t Location	Evaluation of Significance Status			
Natural Feature ID	Within	Within Prescribed Setback (50 m)	Requires Evaluation	Previously Evaluated	Evaluation not Required*	
Animal Movement Corridors						
Amphibian Movement Corridors	Yes	Yes	Yes	No	N/A	
Generalized Candidate Significant Wildlife Habitat						
Waterfowl Stopover and Staging Areas (Terrestrial; WSST Other)	No	Yes	No	No	Yes	
Waterfowl Stopover and Staging Areas (Aquatic; WSSA Other)	No	Yes	No	No	Yes	
Shorebird Migratory Stopover & Staging	No	Yes	No	No	Yes	
Waterfowl Nesting Area (WNA Other)	No	Yes	No	No	Yes	
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat (BEOS Other)	No	Yes	No	No	Yes	
Amphibian Breeding Habitat (Wetland; ABHWE Other)	No	Yes	No	No	Yes	
Amphibian Breeding Habitat (Woodland; ABHWO Other)	No	Yes	No	No	Yes	
Woodland Area-Sensitive Bird Breeding Habitat (ASBB Other)	No	Yes	No	No	Yes	
Marsh Breeding Bird Habitat (MBB Other)	No	Yes	No	No	Yes	
Marsh Breeding Bird Habitat (GRHE Other)	No	Yes	No	No	Yes	
Common Nighthawk (CN Other)	No	Yes	No	No	Yes	
Red-headed Woodpecker (RHW Other)	No	Yes	No	No	Yes	
Turtle Wintering Areas	No	Yes	No	No	Yes	
Seeps & Springs	No	Yes	No	No	Yes	
Woodland Raptor Nesting Habitat (WRN Other)	No	Yes	No	No	Yes	

*an evaluation would not be required if the natural feature is located entirely within the 50 m setback or it is assumed significant (i.e., studies to verify provincial significance will not be undertaken or wildlife habitat has been deemed largely unimpacted by the development of a solar facility). **Wetlands located within 50 m of the Project Location will be assessed using *Appendix C: Wetland Characteristics and Ecological Functions Assessment for Renewable Energy Projects* of the Natural Heritage Assessment Guide for Renewable Energy Projects the (MNRF 2012).



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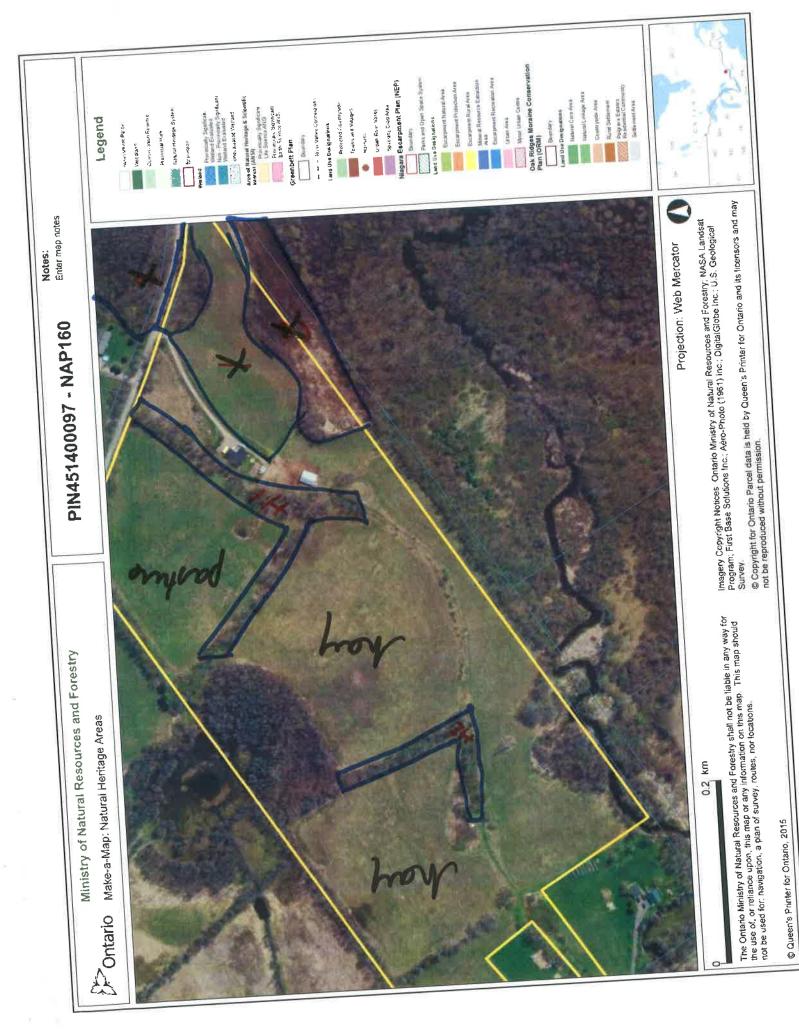


Appendix A

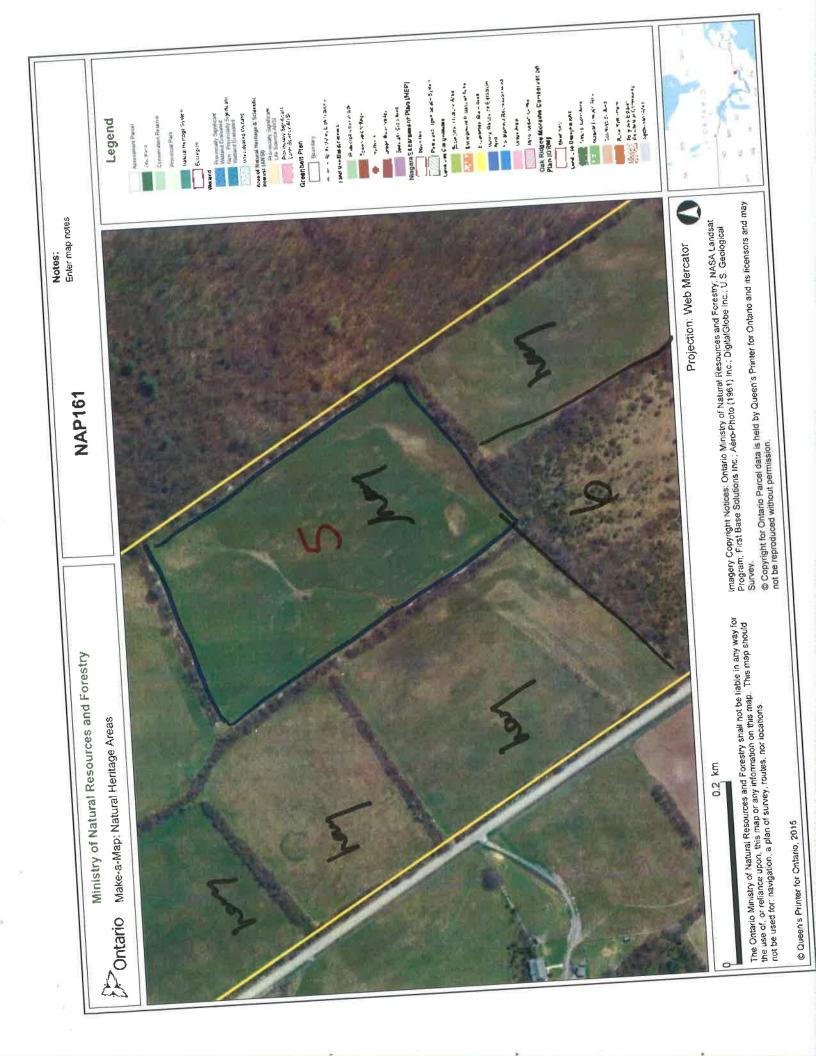
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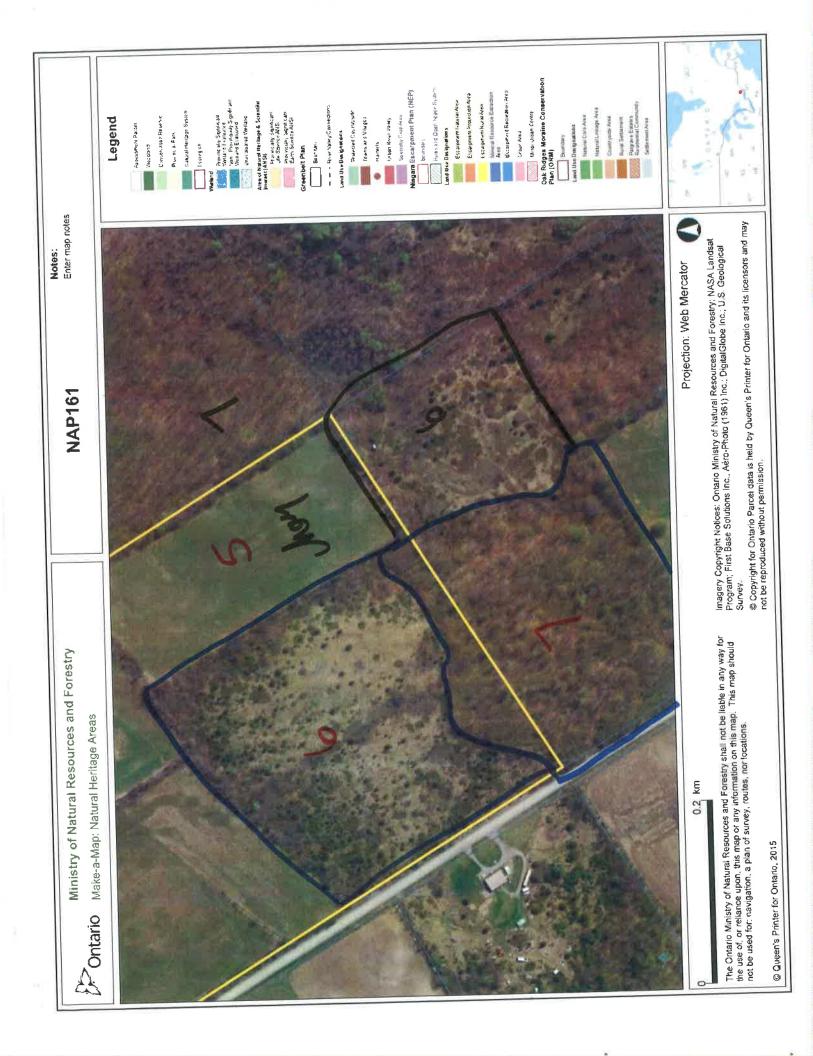












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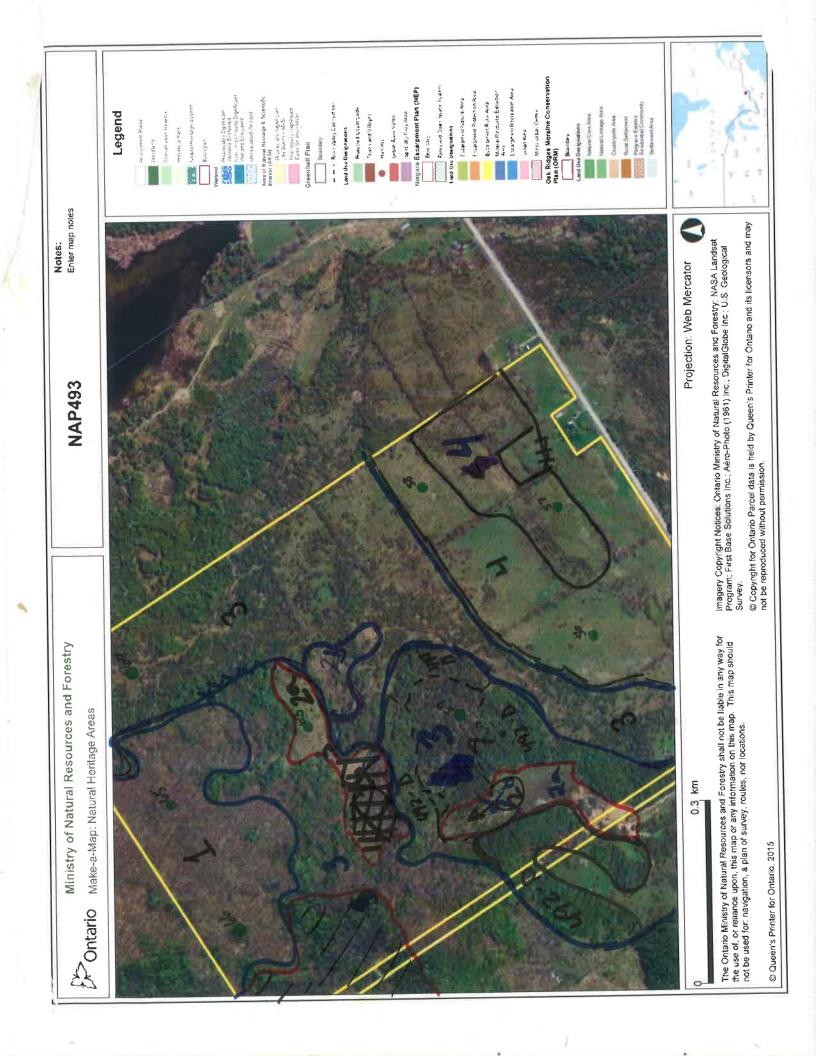
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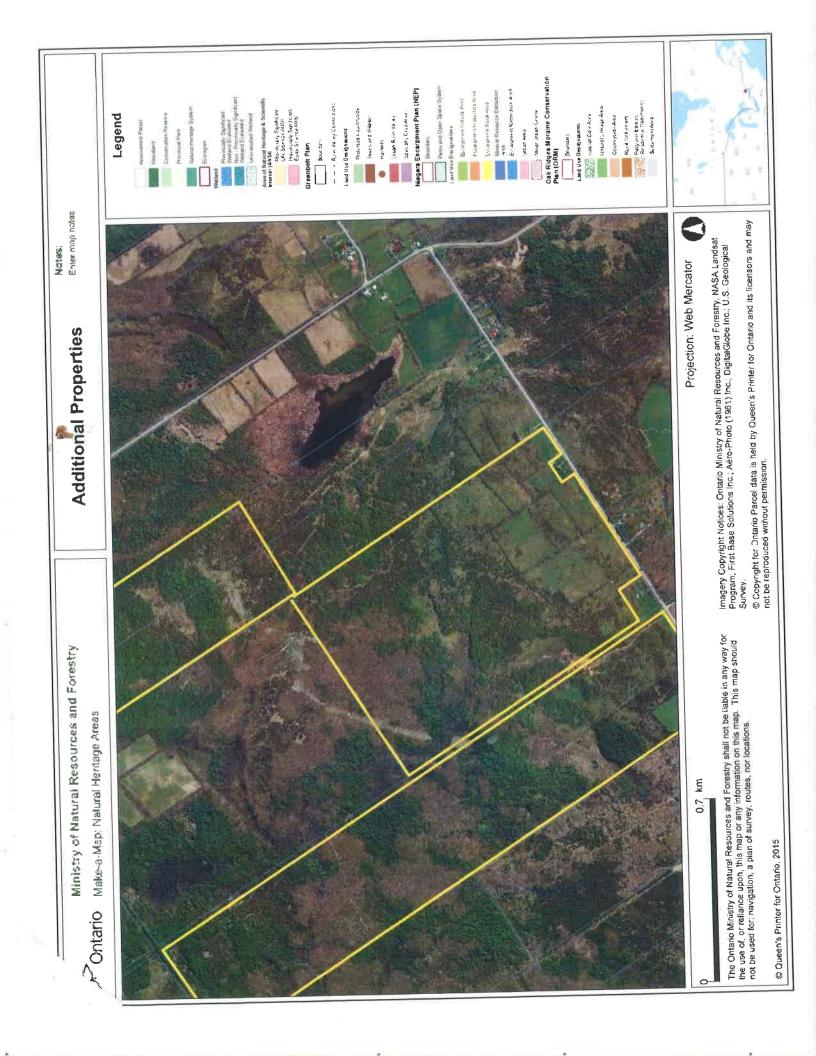
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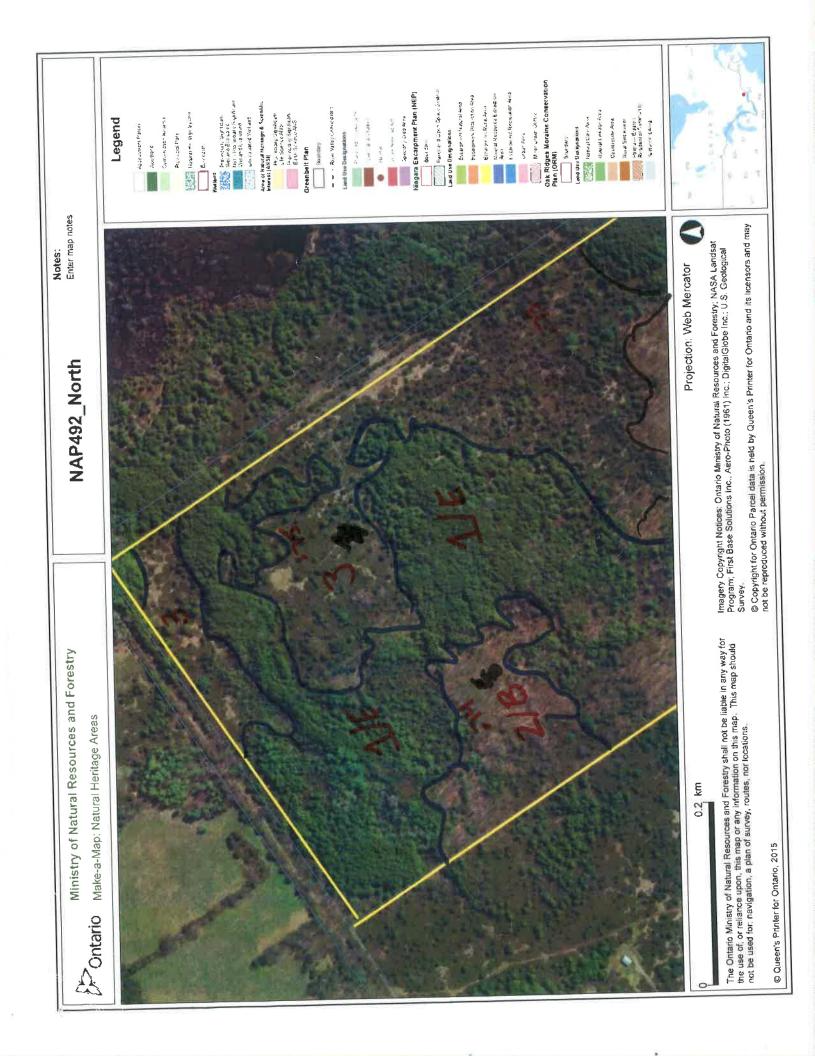
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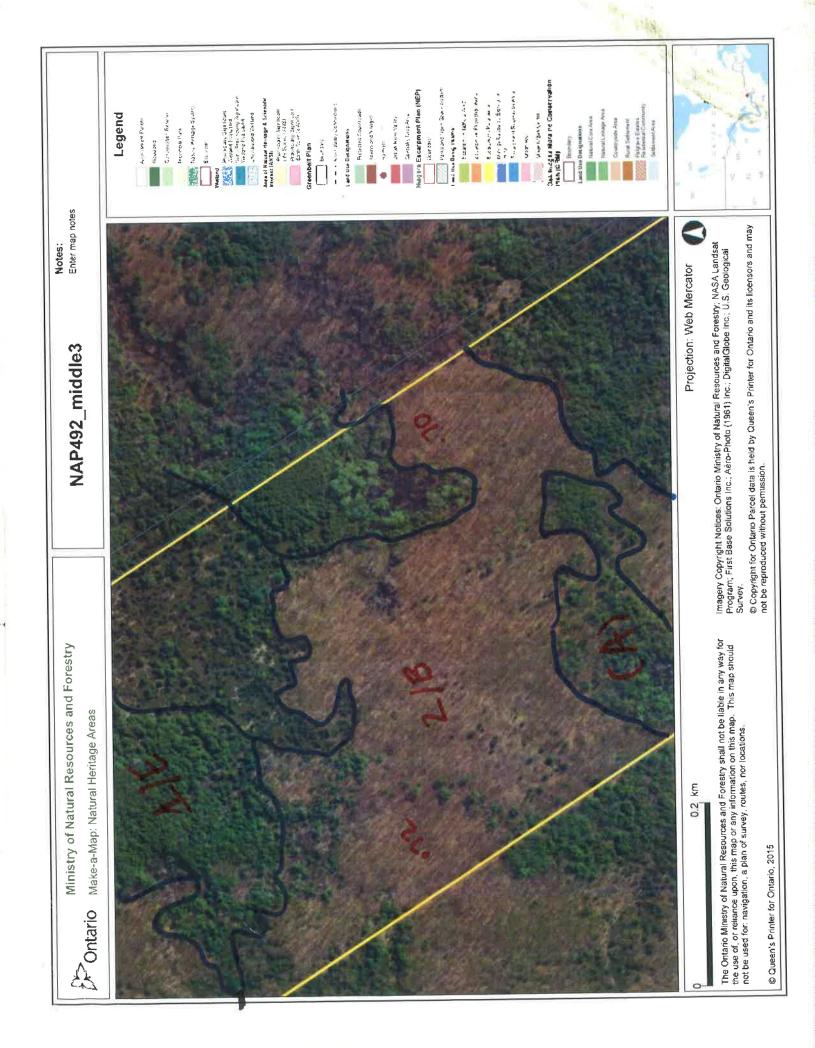
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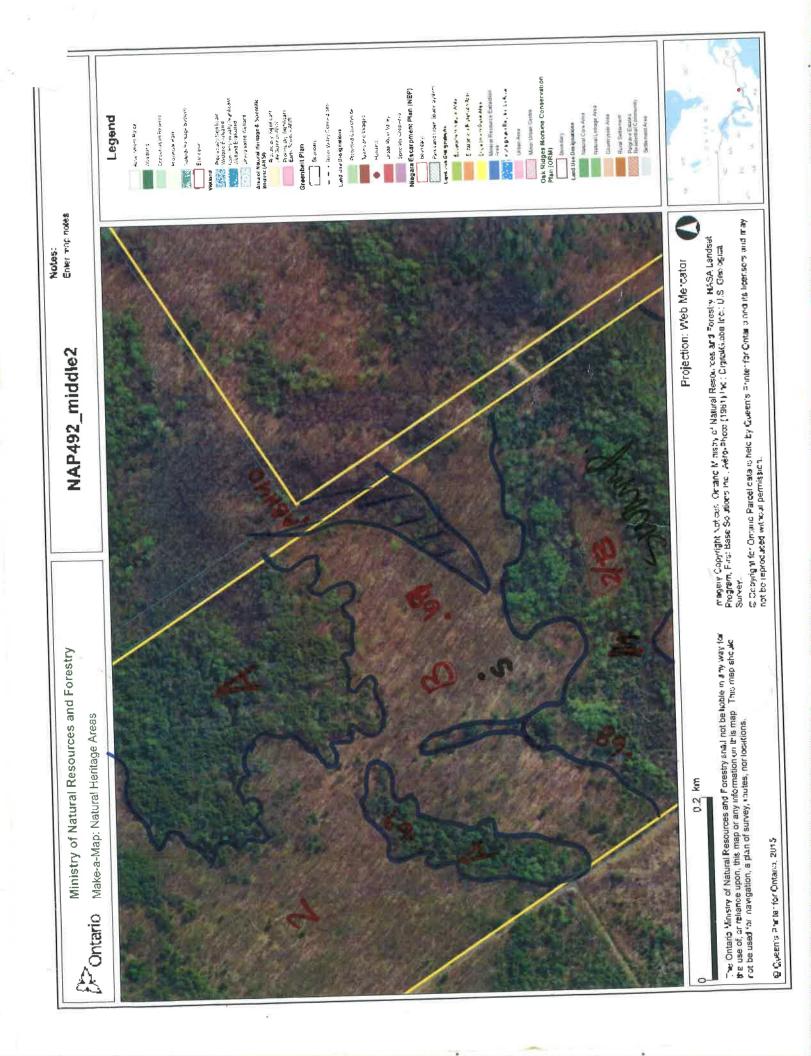
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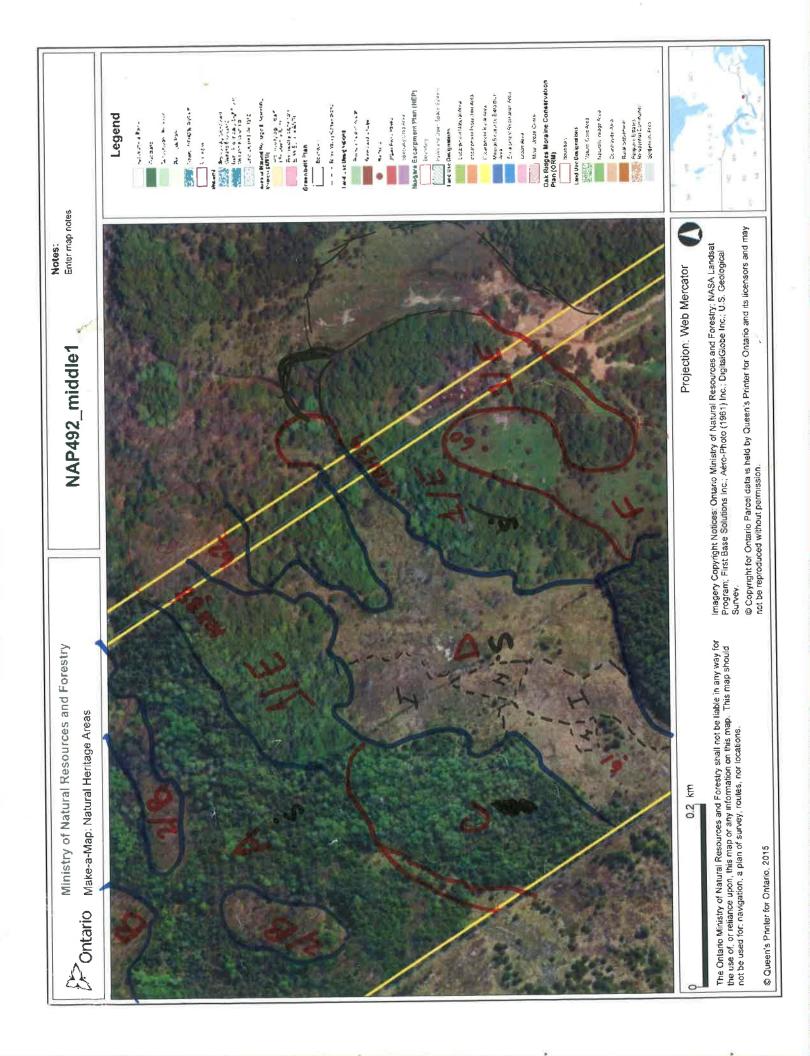
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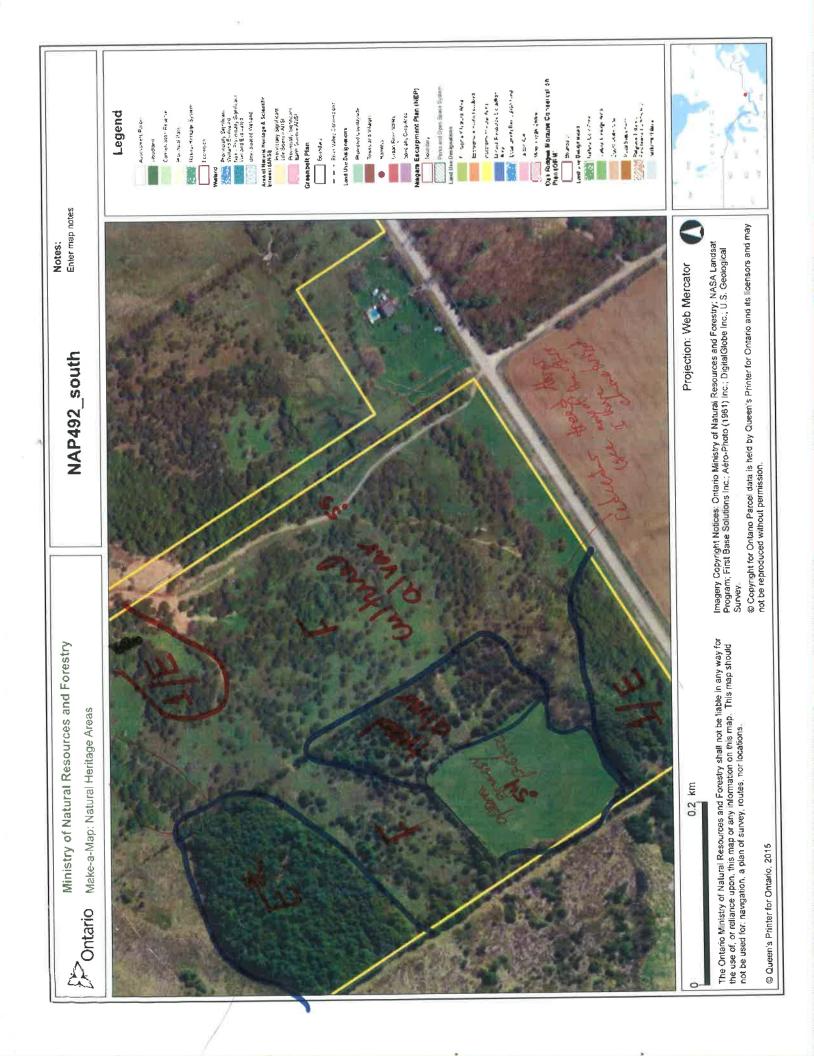












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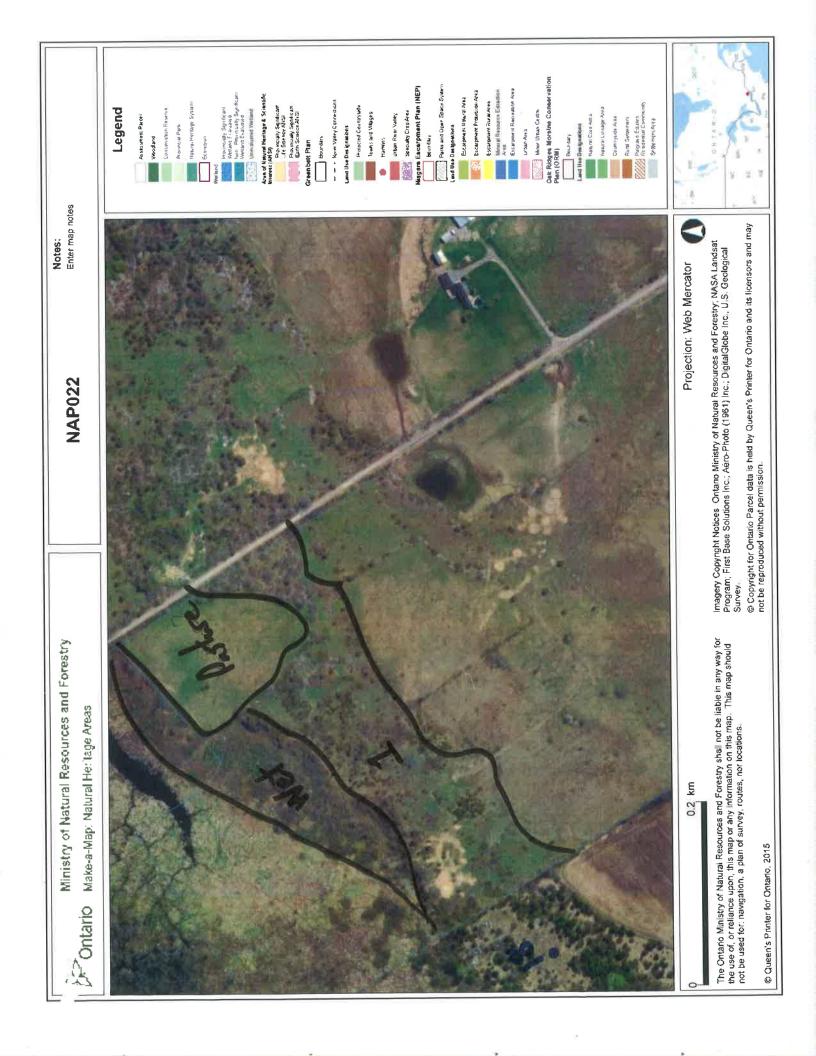
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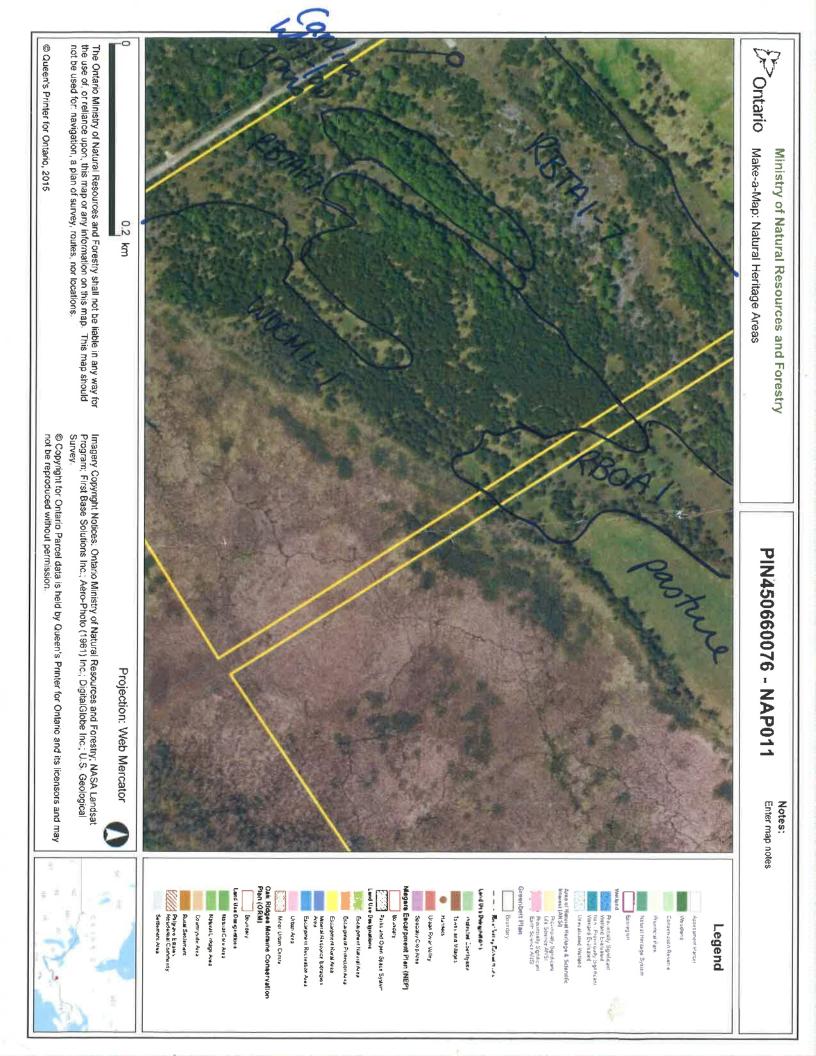
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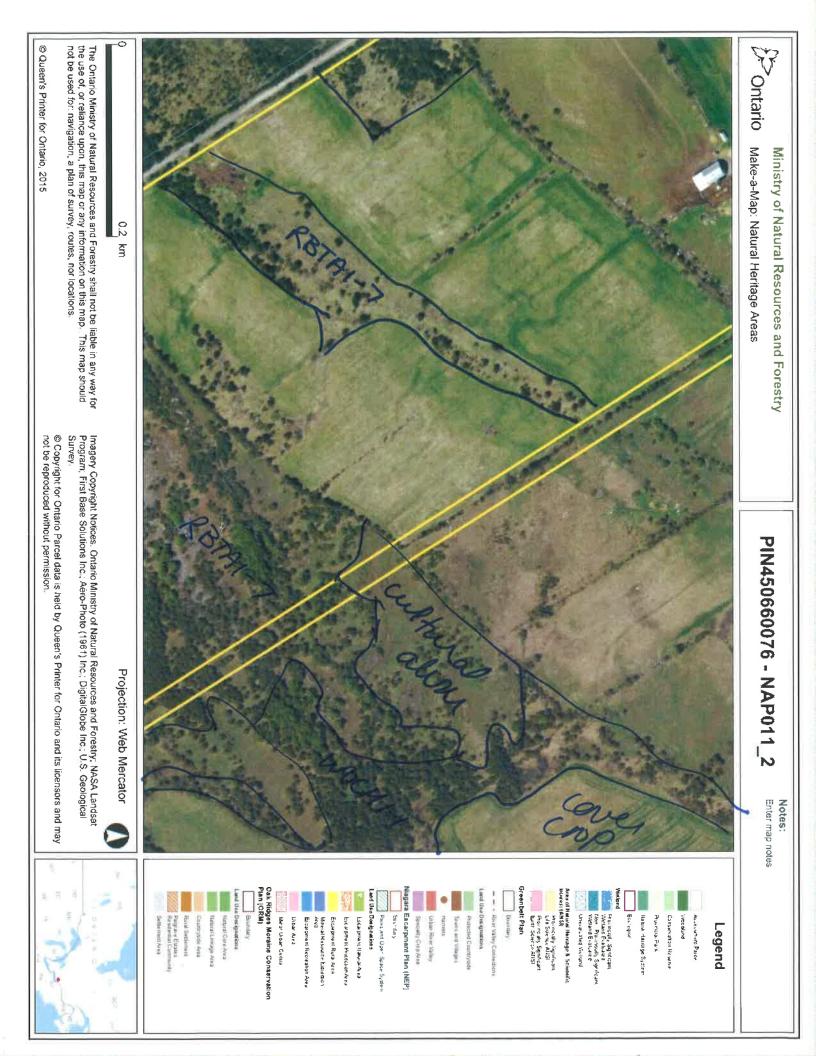


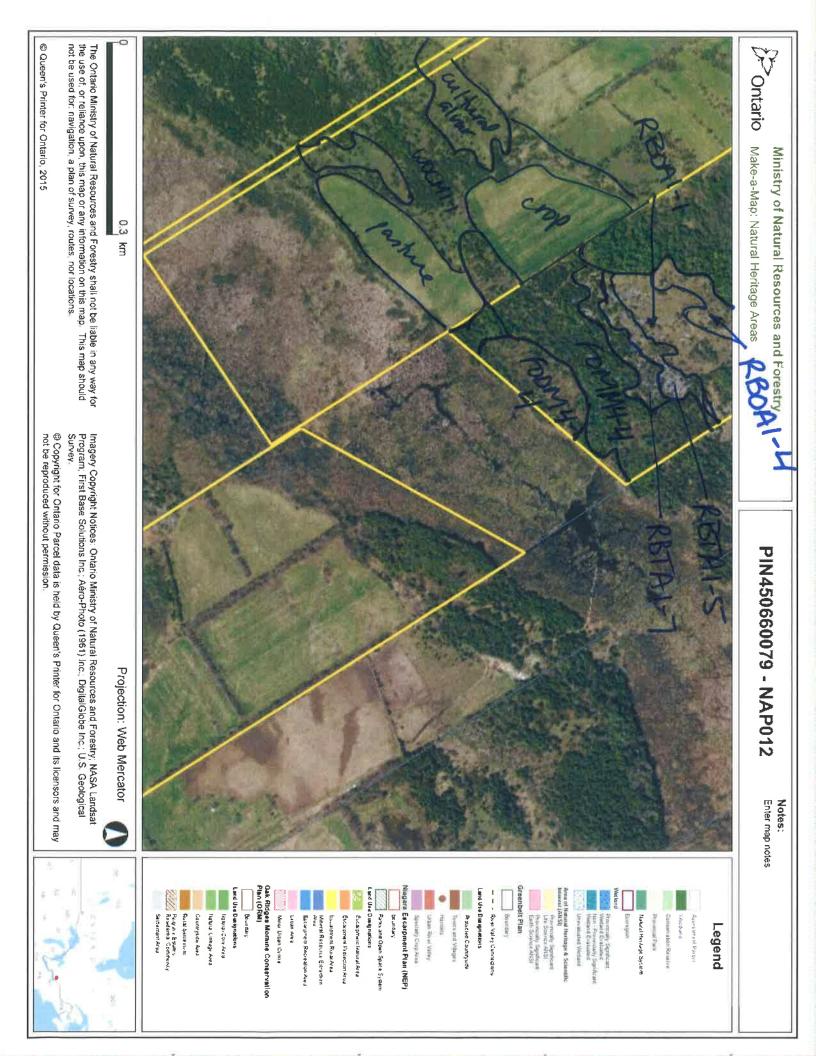
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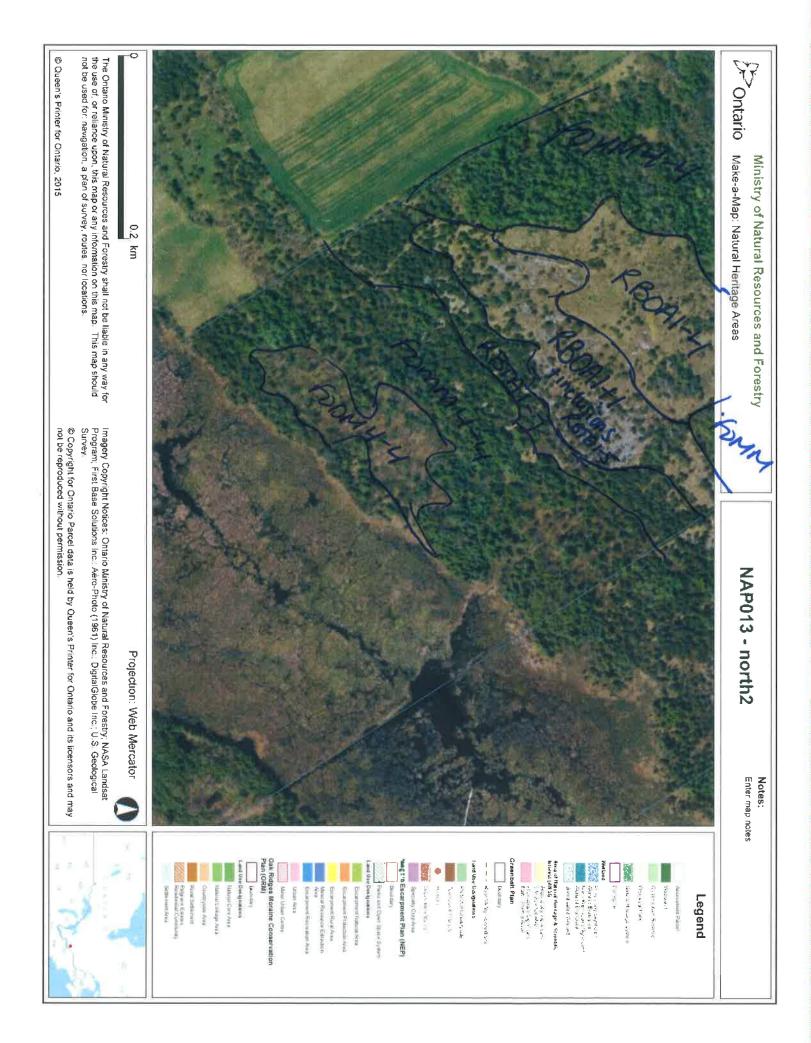
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PP Dr Position Aspect % Type Class Z EASTING	LAYERS: 1=CAMOPY 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER	ERSTOREY 4= GROUND (GRD.) LAYER
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G AQUATIC	ACIDIC BEDRY, G TABLE FAND
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SITE	G CARB. BEDRK	G TALUS G CREVICE / CAVE	COVER G CO	-
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP		G ROCKLAND BEZOTI BAR G SAND DUME G BLUFF G BLUFF G TREED	IED B	G THERET G SAVANNAH G WOODLAND G POREST G PLANTATION
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		< 10	. 24	25 - 50 > 50
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SOIL ANALYSIS	*	PIONEER	MD-AGE	MATURE GROWTH
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INCLUSION	ž		1	
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COMMUNITY PROFILE DIAGRAM

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SITE	CARB. BEDRK. G TALUS G ALVAR COVER G MIXED	
G OPEN WATER G SHALLOW WATER G BEDROCK	ND G OPEN IBAR G SHEUB UNE G TREED	
STAND DESCRIPTION:		
LAYER	HT CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL YO)	
1 CANOPY 2 SUB-CANOPY	3 4 Red (color >> bubile (color Am	
3 UNDERSTOREY	5 3 Proble Press Ruch than & Ranhener	
4 GRD, LAVER	6-7 4 Graves > Porter san > Clarke Then I	
HT CODES: 1= CVR CODES 0=1 STAND COMPOSITION:	25 m 2=104H525 m 3=24H510 m 4=14H22 m 5=0.54H31 m 4=0.24H50 40NE 1=0% < CVR: 10% Z=10-CVR: 25% ==25-CVR: 00% 4=CVR>0%	
SIZE CLASS ANALYSIS:	LYSIS: A <10 A 10-24 N 25-50 N >50	
STANDING SNAGS:	M <10 /V 10-24 /V 25-50 /V >	
ABUNDANCE CODES:	S: $N \times NONE$ R=RARE $O = OCCASIONAL$ A = ABUNDANT	
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ND DESCRIPTION: AYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE IN CAROLING IN COMPARING IN C	SITE OPENWATER SHALLOWATER SURFICIAL DEP. BEDROCK	7.5		귀 위 위	G LIDES
INCLUSION TYPE:		UPTION:		RDER OF DECREA	SING DOMINANCE
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IND. LATER Y Y Ind. Latent 23 h 3 = 244 - 30 m 4 = 1047,23 h 3 = 244 - 30 m 4 = 1047,23 h 3 = 244 - 30 m 4 = 1047,24 h 3 = 254 - 304 a = 10 + 24 h 25 h 3 = 10 + 24 h 25 h 3 = 10 + 24 h 25 h 3 = 10 + 24 h 2 = 10 h 3 + 24 + 24 h 2 = 10 h 3 + 24 + 24 h 2 = 10 h 3 + 24 h 3 + 24 + 24 h 2 = 10 h 3 + 24 h 3 + 24 + 24 h 3 + 25 + 24 h 3 + 24 + 24 h 3 + 25 + 25 + 24 h 3 + 25 + 26 + 26 + 26 + 26 + 26 + 26 + 26			Reduced	うくろ	n.a.c
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CLASS ANALYSIS: Q <10 Q 10-24 Q 25-0 IDIMS SNACS: Q <10	STAND CONFOSTIO	1. N.	Ş		
MAGS: N < 10 N 10 - 24 N 25 - 50 ODES: N = NONE R = RARE O = DCCASIONAL A MELINDANT IV PIONEERS NOUNG MID-AGE MATURE VSIS: DEPTH TO MOTTLES / GLEY g = N N I Noch DEPTH TO MOTTLES / GLEY g = N N I VOIN DEPTH TO BEDROCK: S ELC Y CLASSIFICATION: ELC ELC Y CLASSIFICATION: Y CLASSIFICATION <td>22.55</td> <td>LYSIS:</td> <td>^</td> <td>10-</td> <td>25</td>	22.55	LYSIS:	^	10-	25
OOGS: $ N $ <10	STANDING SNAG	<u>0</u>		10-24	W 25-50
VSIS: PIONEER YOUNG IMDAGE IMDAGE IMATURE YSIS: DEPTH TO MOTTLES / GLEY g = 7,7,7 Toch DEPTH OF ORGANICS: G TY CLASSIFICATION: EEPTH TO BEDROCK: G G ELC TY CLASSIFICATION: ELC ELC FIC FIC TY CLASSIFICATION: ELC ELC FIC FIC TY CLASSIFICATION: ELC FIC FIC FIC TY CLASSIFICATION: ELC FIC FIC FIC TY CLASSIFICATION: FIC FIC FIC FIC TY SERIES: FIC FIC FIC FIC FIC FIC FIC FIC FIC FIC FIC <td>ABUNDANCE CODE:</td> <td>Z</td> <td>RANE O</td> <td>OCCASIONAL</td> <td>TABLINDA</td>	ABUNDANCE CODE:	Z	RANE O	OCCASIONAL	TABLINDA
International and the second secon	COMM. AGE:	S		NID-AGE	MATURE
MARIABLE DEPTH TO BEDROCK: 3 ASSIFICATION: LASS: RIES: SITE: Dry Lichen mass open Prope: Dry Lichen mass open When Lichen mass open A Lichen mass open RES: Dry Lichen mass open RES: Children Mass open Children Mass open RES: Children Mass open Children Children Mass open Children Mass open	비도니	~	DEPTH TO MO	TILES / GLEY	ון ל פ_
CLASSIFICATION: Y CLASS: r SERIES: ECOSITE: ECOSITE: Dry Lichen moss open is Alinn pawement type RB SION 201 (add a Bully Buttlebus	HONOGENEOUS		DEPTH TO BED	ROCK	(ri)
relass: series: cosite: cosite: Dry Lichen moss open the Alan pawement type RB ion Red Cector Bully Buttering		LASSIFICAT	ION:		EL
SERIES: COSITE: NI TYPE: Dry Lichon moss open in the CS NI TYPE: Dry Lichon	-21	STASS:			
Dry Lychen moss open type RB Alvan pawement type RB		ERIES;			
Alan pavement type RB	EC	OSITE:			
Rode	VÉGETATION	I TYPE: ON		SS	R RBOY
COMPLEX	INCLUSIO	2	d Cedas E	July But	Herbus RI
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. unclusions of RBTA1-5 present along Southern wedge of phygen, in tourn them area blus RECAI-1 & RBTA1-7 very few plants observed in pockets. TREE TALLY BY SPECIES: BASAL AREA (BA) STAND SPECIES PRISM FACTOR ELC TOTAL DEAD TALLY 1 SITE: POLYGON: DATE: SURVEYOR(S): TALLY 2 TALLY 3 TALLY 4 TALLY 5 TOTAL AND REP ŝ

STAND COMPOSITION:

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T		ELC CODE		FION:	ASSIFICAT	COMMUNITY CLASSIFICATION:
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11		MATURE OLD GROWTH	V MID-AGE	R YOUNG	PIONEER	COMM, AGE :
T		ABUNDANT	OCCASIONAL A =	R=RARE O⇒	N NONE	ABUNDANCE CODES:
COMMU		2	C 10-24 Q	C <10		DEADFALL / LOGS:
		25-50 N >50	A 10-24 A	2 < 10		STANDING SNAGS:
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Notes: Dumping ste.)	COMPLEX	VEGETATION TYPE O- + WINTE ASh - Hardwood FODM44-2	ECOSITE:	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION: ELC CODE	HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)		COMM. AGE PIONEER VYOUNG NID-AGE MATURE OLD	$\frac{ D = AdFALLFLOGS:}{ABUNDANCE CODES:} = HONE R = RARE O > DCCAS CNAL A = ABUNDANT$	R <10 P 10-24 N 25-30 N	SIZE CLASS AMALTSIS: $ A < 10$ $ B = 10 - 24$ $ N = 25 - 50$ $ V > 50$		POSITION:	HT CODES: I read in an indufficant a reachtright a right an Sedschith in a reachtright in reaction of the set	AVER 187 H Putton Iny > Cap	WADERSTOREY U.S. 3 BUCKAUR > RUCKAU AL > MUNICA MPIL	SUBCANOPY 3 3 Swy MADON	1 CAMPY 24 WINTER ASE > WINTEREAS	LAYER HT CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)	STAND DESCRIPTION:	Ginee	Ganalia	G WAYS	SARB. BECHK, C TAUS G SREMCE COVER COVER COVER	G US-ER	C PARENT MIN. G TERRACE G WALLEY SLOPE G PORS	G TERRESTRAD G ORGANIC G LACUETRANE G ANTLANL G FLANT RELIE G 2019 G VIETLAND G WARAUL SOIL G RETAIL G GULTURAL G FLANT RELIE G 2019	SIGLEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY	DESCRIPTION	CLASSIFICATION LTM2: UTME UTMN	~ 23	SITE: Low Low
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LEGEND CLASS		SOIL SURVEY MAP	MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC IH	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	AETS	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STOMMESS	SPRECTIVE TEXTURE	COURSE FRAGMENTS	C IEXTURE	DOURSE FR	B TEXTURE	XOURSE FR	A TECTURE		C	, Co	- Ma	CIN	ė	TEXTURE * HORZON	SOIL	5	4			PIA PP Dr		SUILS ON IARIO		ELC	
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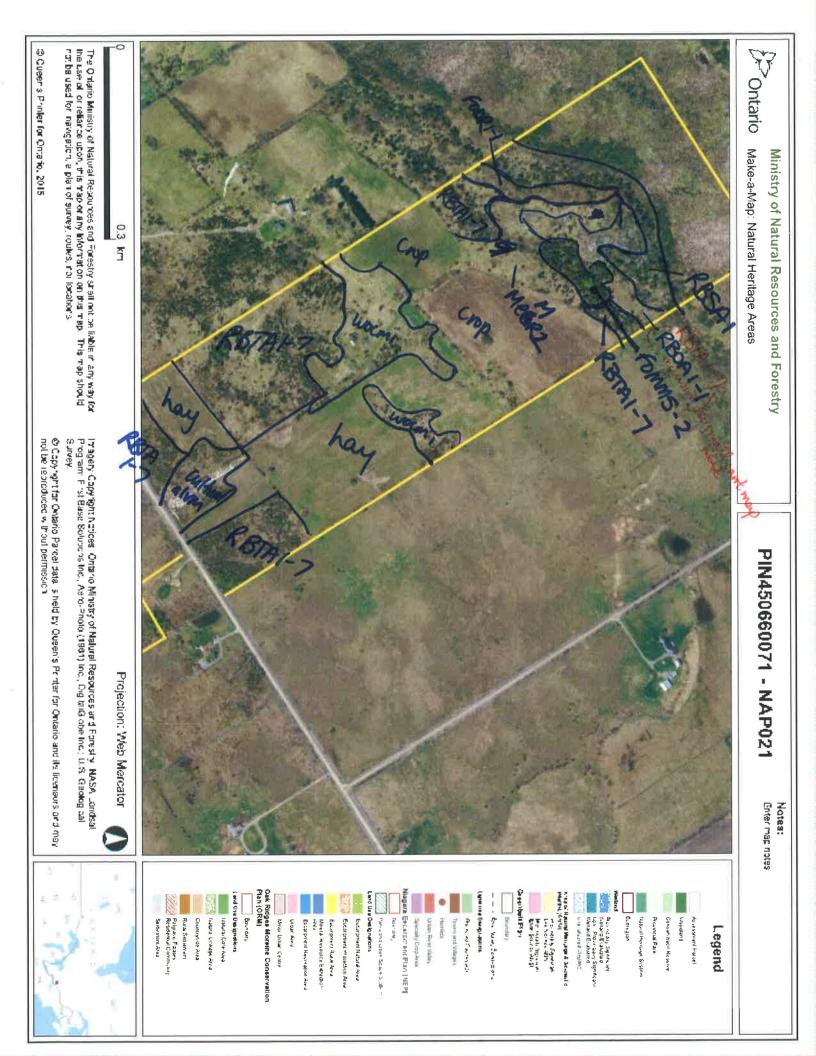
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STAND		DATE:					
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PRISM FACTOR	8						
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			しいのです。この時						J	DEPTH OF ORGANICS
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		20	WINS ANC	<u></u>					• 691	WATER TABLE
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		Sc	ACCON NO	1					5-4-2	SURFACE ROCKINESS
		3	C V V V V						4	SURFACE STONNESS
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CLASSIFICATION		UTME:	UT	UTMIN	
POLYGON DE	DESCRIPTION				
MALSAE	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
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G AQUATIC	ACIDIC BEDR	CONTRACTOR			
SITE:	G CARB. BEDRK	G THLIS G CREVICE I CAVE	COVER	G CONIFEROUS	G BARATEN G NEADOW
S OF WARRAND		ROCKLAND BEACH I BUR	G.OPEN		G THICKET
G SHALLOW WATER		EGHC PLNE	G SHRUB		G WOODLAND COREST CONTATION
STAND DESCRIPTION	RIPTION				
LAYER	HT CVR	SPECIES IN OF	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	ING DOMINANCE (I TER THAN; = ABOU	up to 4 sp) JT EQUAL TO)
1 CANOPY	2 2	Am Elmi	> Swart 1	1-10 K	
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) 2 F	(maxim tentors)	server seven ≥ whereast	4=1<4T;2= 5	-0.5417.5m 6=0.2447.32	02n 7×H7-02m
STAND COMPOSITION:	NON: MOREN MO	pleso An	n. Elmero		BA: 2
SIZE GLASS ANALYSIS:	U,Y9(\$:	R <10	R 10-24	R 25 - 50	N > 50
STANDING SNAGS	, u)	< 10	70 - 24	N 25-50	7Z > 50
ADUNDANCE CODES:	ES: N=NONE	R=RARE 0=	OCCAS :	A = ABUNDART	
COMN. AGE:	PHONEER	NIDA	MID-AGE	MATURE	OLD OLD
SOIL ANALYSIS	IS:				1 .
MOISTURE:		DEPTH TO MOTTLES / GLEY	SANICS:	9 II	(cm)
HONOGENEOUS	S / VARIABLE	DEPTH TO BED	BEDROCK:		(cm)
COMMUNITY	CLASSIFICATION:	ON		ELC	C CODE
COMMUNITY	CLASS:				
COMMUNITY	SERIES:				
m	ECOSITE:				
VEGETATION TYPE:	NTYPE: Alvan	Should R	out Bread	RBSA	3
INCLUSION	ION D-F	Super MOL	No-Hardy	and for	RI-1
COMPLEX	5	0			
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COMMUNITY PROFILE DIAGRAM	STAND COMPOSITION:	DEAD	BASAL AREA (BA)	TOTAL		A. C.					In TSPan I	Sirver mariale	SPECIES	TREE TALLY BY SPECIES	CHARACTERISTICS	STAND		<u>ה</u>
PFLE DIAGRAM P floch & furies RBSAI & RBIAI-7 on W renty = inclusion of	N.	a		27				_			-	_	TALLY 1	CIES:	mes			
- 02 - C													TALLY 2		SURVEYOR(S):	DATE	POLYGON:	SITE
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CUNI		Notes: Ada	COMPLEX	INCLUSION	VEGETATION TYPE:	Ē	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION:	HONOGENEOUS / VARIABLE	TEXTURE: 10	COMM. AGE :	VERDARCE CODES:	DEADFALL /LOGS:	STANDING SNAGS	SIZE CLASS ANALYSIS:		NT CODES:	4 GRO, LAYER	3 UNDERSTOREY	2 SUB-CRNOPY	1 CAMOPY	LAYER	STAND DESC	G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK	SITE		G AQUATIC	G TERRESTRIAL G WETLAND	SYSTEM	POLYGON DE	CLASSIFICATION	COMMUNITY DESCRIPTION &	FIC
2	Junges Ai	Actively many			N TYPE:	ECOSITE:	SERIES:	CLASS:	CLASSIFIC	DCY VARIABLE	175 IS:	PIONEER] -		27	ALYSIS:	Ser.	NONE NO	L.	-	-<1	5 5	HT CVR	DESCRIPTION:		G CARB BEDRK		G PARENT MIN	G ORGANIC G MINERAL SOIL	SUBSTRATE	DESCRIPTION	UTMZ:	SURVEYOR(S)	SITE
	This to on open aluns 4	et by andorress.	" Ulivan Petvenishe	Ing-lichen wass open	ed cedar Alvar Weddand Type				ATION:	E DEPTH TO BEDROCK:	efa Aan	VIVOUNG INID-AGE	R=RORE Q=COCCASIONAL R=30		2	A ~10 R 10-24 N	1010-1-5- 13	עריין אין איזער איזער איזער איזער איזער איזער איזער איזע איזער איזער איזע		Repuest > Inning	Quarter > のいたい	Redrector Vision 51	2 (>> MUCH SREATER THAN: > GREATER THAN; > ABOUT FOULL	and Are is opposing on another scalar box	G BEACH / DAR G BEACH / DAR G SAND DUNE G BLUFF G ITALED	G CREVICE / CAVE COVER	G CHIE	G TERRACE	·	FEATURE HISTORY		UTME: UTMN:	NIC- DATE TIME	POLYGON:
	regetation type	Removed of Redicedor etc.		KB0A1-1	RBTA1-7				ELC CODE	(cm)	917 6- 111	MATURE OTD GROWTH		25 - 50 1 1 2 50	Z.	25-50 N > 50	BAR 5.	n e = 0.2411(90.310 / ≈11140,210) 4≂ CVR > 60%		Ins. Completion 18	いいろいので		A: * ABOUT FOUAL TO:			000	000	ററെ		PLANT FORM COMMUNITY			finish 6117	N.

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STAND		DATE					
CHARACTERISTICS	SOL	SURVEYORISI	its):				
TREE TALLY BY SPECIES:	Ĩ,						
PRISM FACTOR	R 2						
SPECIES	TALLY 1	YALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	ANG C
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TOTAL	2	2	12				100
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LEGEND CLASS	SOIL SURVEY MAP	MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	¢LEY	MOTTLES	DEPTH TO / OF	SURFACE ROCKIMESS	SURFACE STOWNESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEATURE	COURSE FR.	B	COURSE FR	A TEXTURE		TEXTURE & HORIZON	SOIL	5	2041	14 V	7	00100		ELC	
		0	/	/	NO.	129	200	312	404	1441		<5%	25°	UN T	1	1	/.	/	<5%	ST	N Sin		+		5	tradev tunicou				<u>'</u> 0'	
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LIST LAYERS: LIST ABUNDANCE CODES: R SPECIES CODE CALVES CAN RUTES	FLANT SPECIES
RARE CANOL	
	SITE: POLYGON: DATE:
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A = ABURDANT D = DOMINANT A = ABURDANT D = DOMINANT A = ABURDANT D = DOMINANT SPECIES CODE 1 2 1 2 10 10 10 10 10 10 10 10 10 10 10 10 10	
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	alle Lov it 147 21 POLYCON: S	
	SURVEYOR(S): 1 TIME: start 7:44	
	UTIMZ: UTIME: UTIMN:	
POLYGON DE	DESCRIPTION	
SYSTEM	SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY	
G VETLAND G AQUATIC	G ORGANIC G ORGANIC G DARENT SOL G PARENT MIN. G ACIDIC BEDRK. G ACIDIC BEDRK. G ACIDIC BEDRK. G CLIFF G BASIC BEDRK. G CLIFF G CLIFF	
SITE	TALUS OREVICE COVER G MIXED ALVAR	
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK	G BEACH / BAR G SMO DUNE G BLUFF G LUFF G TREED G PLANTATION	
STAND DESCR	DESCRIPTION	
	HT CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)	
1 CANOPY	2 3 Trumb AND Redect Am Em - Sand Mrs	0
2 SUB-CANOPY	3 3 Reductor - White Land & Letter	
3 UNDERSTOREY	5 5 Juniper > White Celer	
- T - T	1=>25 m 2#10447.25 m 3=2447.10 m 4=1447.2 m 5=05447.1 m 6=0.2447.0.5 m 7=447.42 m	
STAND COMPOSITION:	Denter Am Elmis R. Cedaria BA: 2	
SIZE CLASS ANA	ANALYSIS: 0 <10 1 10-24 1 25-50 1 >50	
STANDING SNAGS:	S:	
ABUNDANCE CODES:	18: $M = NONE$ $R = RARE$ $O = OCCASIONAL A = ABLINDANT$	
COMMLAGE :	PIONEER YOUNG MID-AGE	
SOIL ANALYSIS		
MOISTURE:	am	
	VARIABLE DEPTH TO BEDROCK: 900	
COMMUNITY CLASS	CLASS: ELC CODE	
COMMUNITY SERIES:	SERIES:	
EO	ECOSITE:	
VEGETATION TYPE:	NTPPE: Ony - Event Poplar Missed - TUMMS-2	
INCLUSION	N	
COMPLEX	SX	
Notes:		

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ELC		POLYGON:					
STAND		DATE:					
CHARACTERISTICS	cs	SURVEYOR(S):	(S):				
TREE TALLY BY SPECIES:	5						
PRISM FACTOR	Ø						
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL.
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Tourb Aso 1	とした					10	09
R. S. Level						2	73
whiteeder	111					1	5
Backthern I						1	C)
TOTAL	16					91	100
BASAL AREA (BA)	28					28	
DEAD	Ø						
STAND COMPOSITION:							
COMMUNITY PROFILE DIAGRAM	DIAGRAM						
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Notes:							

	LEGEND CLASS	SOIL SURVEY MAP	MOISTURE RECEIVE	PORE SLIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORDANICS	CARBONATES	WATER TABLE	BEDROCK	GLEY	Set Lion	DEPTH TO / OF	SURFACE ROCIDINESS	SURFACE STOWNESS	EFFECTIVE TEXTURE	COURSE FRAOMENTS	C TEATIVE	COUNSE FR	B TEXTURE	Course fr	A TEXTURE		TEXTURE & HORIZON	6	5 4	ω	2 4	PIA PP Dr		SOILS C		Ε
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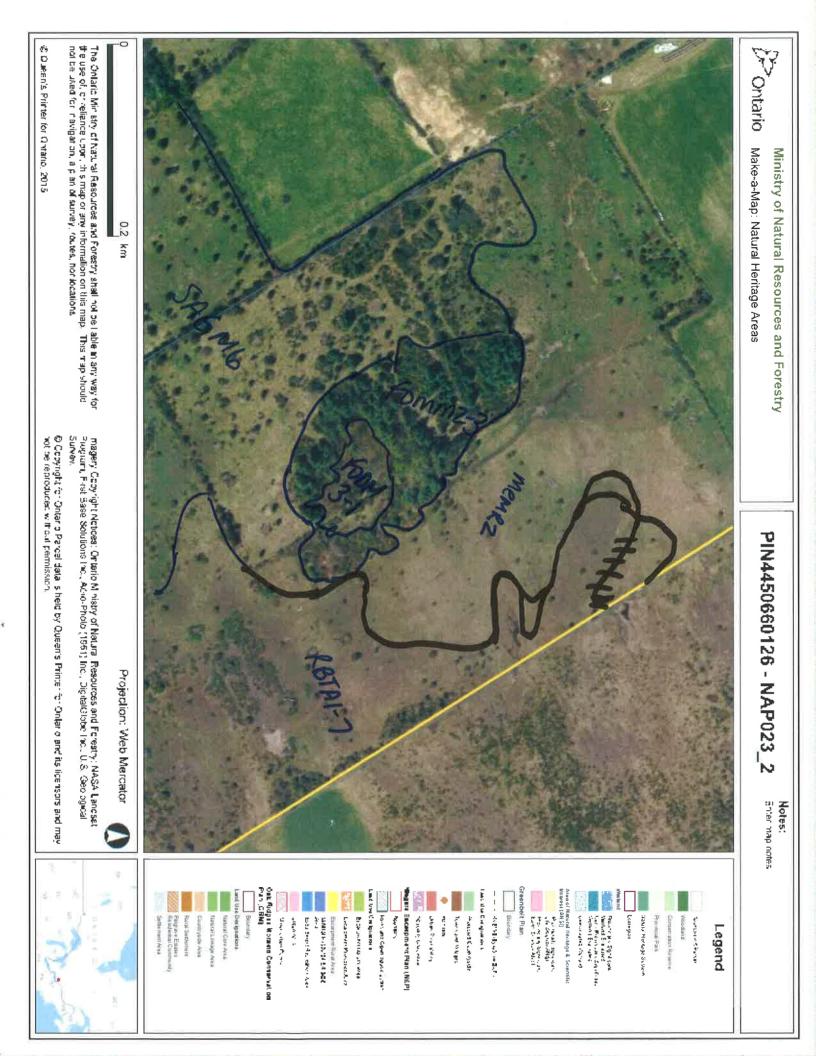
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Hickly Ash Buck Ash Buck Ash Buck Ash Buck Hern Buck Hern Kashir Duns Kashir Duns Kashir Apr Am Ething Angle Maple		FLANT SPECIES LIST LUST LUST LUST LUST LUST ABUNDANCE CODES: SPECIES CODE LUTS LUTS LUTS LUTS LUTS LUTS LUTS LUTS
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		Y 3 = UNDERSTOREY 4 = GROWND (GRD) LAYER A = ABUNNOWNY DL SPECHES CODE 1 2 3 4 0 1 <

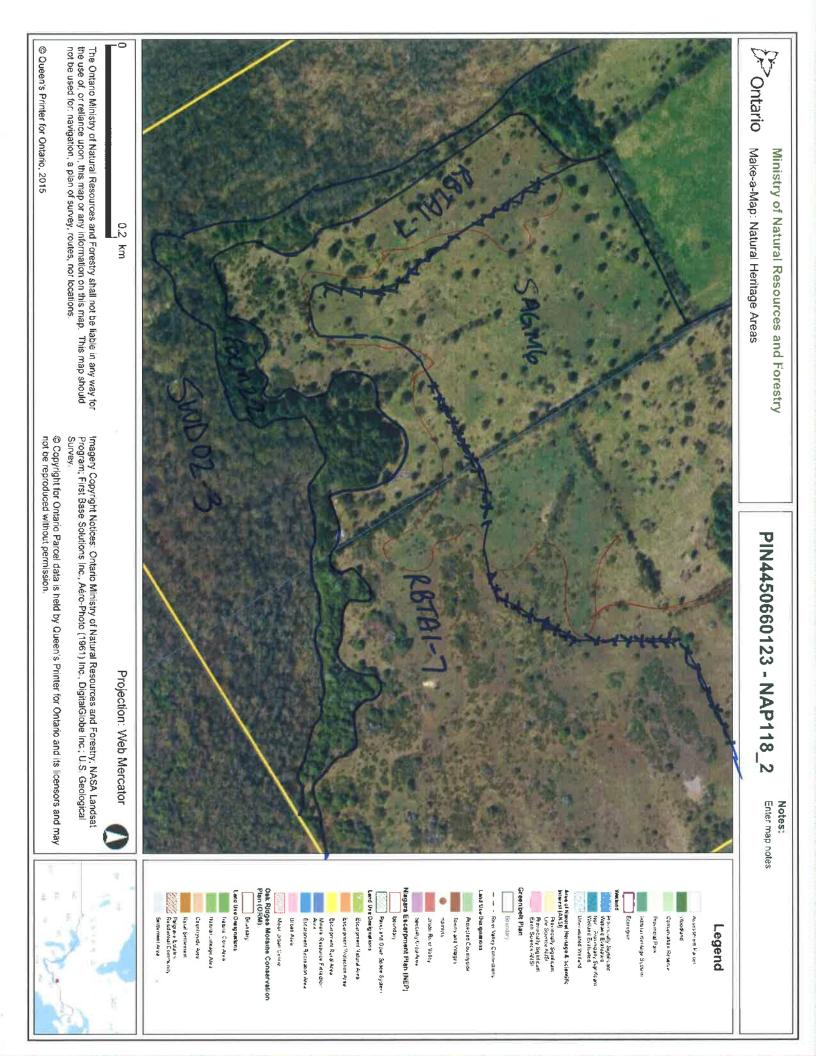
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CLASSIFIC ATION	UTMZ: U	UTME		ITMN:	214
POLYGON DE	DESCRIPTION				
SYSTEM	SUBSTRATE	TOPOGRAPHIC	HISTORY	PLANT FORM	M COMMUNITY
G TERRESTRAY G +C JATC	MINER PAREN ACIDIC BASIC	BEDRY, G CLIPF	G CULTURAL	G PLAINTOL	000000000 87587985 87587985
SITE	CARB	G TALUS	COVER	G CONIFEROUS	13
G OPEN WATER	~	G ROCKLAND G BEACHTBAR G BULFF	G OPEN G SHRUB G TREED	Į	G THICKET SAVANNAH G FOREST FOREST
STAND DESCR	SCRIPTION:				
ER	HT CVR	SPECIES IN O	SPECIES IN ORDER OF DECREASING DOMIN MUCH GREATER THAN; > GREATER THAN;	SING DOMINANCE	ANCE (up to 4 sp)
1 CANONY					
2 SLB-CANOPY	(J) -	Red cook	an > Rick	thain 38	000
3 UNDERSTOREY	415 2	1001		- 1	2 How
4 GRD, LAVER	6-7 H	1 games	> Ascie pro	- JAS 9	
CVR CODES 911	1-04 I-044	Contract of the second	M 206 0= 23≺073	31 60% 40 OVE > 60 S	BA:
SIZE CLASS ANA	ANALYSIS;	<10	10 - 24	25 - 50	> 50
STANDING SNAGS:	Ş	< 10	10 - 24	25-52	> 50
DEADFALL / LOGS: MEUNO/INCE CODES:	BNCM = N :S	R=RAR= 0:	= 0004510MAL	A = A 3UNDANT	> 50
COMM. AGE:	PIONEER	VOUNG	MID-AGE	WAT.JRE	(CLD
SOIL ANALYSIS	∧ ſ	DEPTH TO MO	MOTTLES / GLEY	666=0	G= 999
MOISTURE	DNA	읚	ORGANICS:	CM	(cm)
HOMOGENEOUS	/ VARIABLE	DEPTH TO BEI	BEDROCK: 10	CM	(cm)
COMMUNITY C	CLASSIFICAT	TION:		티	LC CODE
COMMUNITY (CLASS:				
COMMUNITY S	SERIES:		>		
EC	COSITE:	N			
VEGETATION	UND SANT	-frees	Wal careaus	AN Copern	YR2
	Ñ	5			
INC_US C					

Notes:	community profile DIAGRAM	STAND COMPOSITION:	DEAD	BASAL AREA (BA)	TALOL		/		7	2						SPECIES TALLY 1	PRISM FACTOR	TREE TALLY BY SPECIES:	CHARACTERISTICS	STAND		1
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ţ	1	Wo ba	R	Mellow .	Kang	Led Une:	John St		Haul munta	al supply	Wild Carried	54	Oleans Nation	VA-C	100		BUN OWNER K	0	5 k 103	topin	M	Rawwood K		A A VOY	dan A A	So- Alder D	in	1-1-21	1. Ash A	-	_	ABUNDANCE CODES: R = RARE O = OCI	LAYERS: 1 = CANOPY 2 = S				
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1		Wobd Land Straw	R	Mellin hantwee	Kang P	Yed Une O	50.	Uten IIIIII	Unuil 1	al supply	Wild Carrier O	w Shun	2.12	No. Con	A C POWER		X	0	5 k 103	to Vind DA	M	2		A A VOY	dan A A	So Rider D	I'm '	1-1-21			SPECIES CODE	ABUNDANCE CODES: R= PARE O= OCCASIONAL, A = ABUNDANT O= DOMINA	LAYERS: 1= CANOPY 2= SUB-CANOPY 3= UNDERSTOREY 4= G	SURVEYORIST OUT	DATE:	SITE: // ALD //Y	Action Profile Action 1
1		Wobd Land Straw	R	Mellin hantwee	Yang M	Yed Unic-	50.	Uten IIIIII	Unuil 1	al supply	O to the second of the second	w Shun	2.12	No. Con	A C POWER		X	0	5 k 103	to Vind DA	M	2		A A VOY	dan A A	So-Alder D	I'm '	1-1-21			SPECIES CODE	ABUNDANCE CODES: R= PARE O= OCCASIONAL, A= ABUNDANT O= DOMINANT	LAYERS: 1= CANOPY 2=SUB-CANOPY 3=UNDERSTOREY 4= GROUND (GRD.) L	SURVEYORIST OUT	DATE:	SITE: //	Action Profile Action 1
1		Wobd Land Straw	R	Mellin hantwee	Part Part	Yeal Uniter O	50.	Uten IIIIII	Unuil 1	al supply	0 km h i m	w Shun	2.12	No. Con	A C POWER		X	0	5 k 103	to Vind DA	M	2		A A VOY	dan A A	So-Rider D	I'm '	1-1-21		1 2 3 4	SPECIES CODE	ABUNDANCE CODES: R= RARE 0= OCCASIONAL A= ABUNDANT 0= DOMINANT	1 = CANOPY 2 = SUB-CANOPY 3 = UNDE	SURVEYORIST OUT	DATE:	SITE: // ALD //Y	Action Provide Action 1 and 1

White Wind Wind Wind Min & Ledon & Balancod

	SURVEYOR(S)	PC-C-02	DATE	TIME: start	Contract 1
CLASSIFICATION &	UTMZ: U	UTME	0 000	UTMN	
POLYGON DE	DESCRIPTION				
6 E I	SUBSTRATE	TOPOGRAPHIC	HISTORY	PLANT FORM	COMMUNITY
SIAL	G ORGANIC	G LACUSTRINE	GNATURAL	G PLANKTON G SUBMERGED	G LAKE
G ADUATIC	G PARENT MIN.	G TERRACE	CI CULINKAL	G FLOATING-LVD.	G RIVER G STREAM
		G VALLEY SLOPE	(ICHEN	
		CLIFF	0	G DECIDUOUS	IGG FEN
SITE	CARB BEORK	G CHEVICET CAVE	COVER	G MIXED	G PRAIRIE
G OPEN WATER		G BEACH / BAR	Goner		G THICKET G SAVANNAH G FOREST
STAND DESCH	DESCRIPTION:				
LAYER	HT CVR	(>> MUCH GREAT	RDER OF DECREA	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL.	JT EQUAL TO)
1	V N	K.Codan	> Crab	Acro XX	I.Elm=
_	H 2	Janisca	2Buch the	in Shaney	uchdes /
1c	E D	Gran	· s > Bu	le Thist	0> June
4 GRD. LAYER	6-7 21	low vete	h>Black	meduic >	Lures
HT CODES: CVR CODES	>25 m HONE	2 × 10 <ht-25 3="2<HTs10" 4="14<br" m="">1= 0% < CVR + 10% 2= 10 < CVR s 25%</ht-25>	4=1 <ht;2 m<br="">2 : 25% 3=25</ht;2>	5 = 0.5 <hts1 0.5="" 6="0.2<HT" =="" m="" m<br="">< CVR = 60% 4= CVR > 60%</hts1>	0,5 m T = HT<0,2 m
STAND COMPOSITION:	UN:				BA;
SIZE CLASS ANALYSIS:	LYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	\$	< 10	10 - 24	25 - 50	> 50
DEADFALL / LOGS:	S	< 10	10-24	25 - 50	> 50
ABUNDANCE CODES:	S: N = NONE	R=RARE 0=	OCCASIONAL	A = ABUNDANT	
COMMLAGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD
SOIL ANALYSIS	Ņ				TOTARONIO
TEXTURE:		DEPTH TO MOTTLES /	TLES / GLEY	9 =	G⊓ ∏
MOISTURE:		DEPTH OF ORGANICS:	ANICS:		(cm)
HOMOGENEOUS	/ VARIABLE	DEPTH TO BEDROCK:	ROCK:		(cm)
COMMUNITY C	CLASSIFICATION:	ION:		ELC	CODE
COMMUNITY CLASS:	CLASS:				
COMMUNITY SERIES:	ERIES:				
ЕС	ECOSITE:				
VEGETATION TYPE:	ITTPE: Shru	the Parst	J.	15	01.44
INCLUSION	Ň				ĺ
COMPLEX	×				
Notes:					

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ELC STAND CHARACTERISTICS	ICS	SITE: POLYGON: DATE: SURVEYOR(S):	2	men 118	1023		
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							
STAND COMPOSITION:							
COMMUNITY PROFILE DIAGRAM	DIAGRAM						
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Position Aspect 10 1 10 1 1	ELC SOLS ONTARIO	Site: Folygor: Date:
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SOIT.	
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$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000$		
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2 Cm 999 15Cm	(E)	999
	BEDROCK	ISCM
997 2 Cm	WATER TABLE	9991
	CARBONATES	0
SUZE DISC 42	PORE SIZE DISC IN	
	PORE SIZE DISC #2	
SURVEY MAP	MOISTURE REGIME	Ø
	SOIL SURVEY MAP	

ELC	SURVEYOR(S): 1) C - DATE TIME start (1220)
DESCRIPTION &	JUNELO Mish
- L ž	UTM2 UTME: UTMN:
SYSTEM	SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY
G TERRESTRIA	RIVERINE G NATURAL
G AQUATIC	ACIDIC BEDRIK G ROLL UPALAND G ERVOPENTE G GRANINOLD G FORMINOLD G FORMINOLD G EVOPENTE G GRANINOLD G ERVOPENTE G GRAVITAL G ERVOPENTE G G G G G G G G G G G G G G G G G G G
SITE	CULFF G.DECIDUOUS GE CREVICE CAVE COVER GOWIFEROUS GE ANARE COVER GWITEROUS GE
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK	BECCH / BAR BECCH / BAR SAND DUNE BLUFF C TREED
STAND DESCR	DESCRIPTION
LAY	HT CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	1 4 Miledon 77 W Ash & Spine a
2 SUB-CANUPT	123 4 Buchtoin > 14 Codor > 14 Elm = Buroa
GRD. LAYER	6-1 3 CONVIDIACNOWING HAN JUNIAL
HT CODES: CVR CODES	<ht-2 0.5<ht="" 1;<br="" 5="" m="" ±="">% 3= 25 < CVR ; 60%</ht-2>
STAND COMPOSITION:	Colours W Elm, Hemlach, Runah, BA: 2_
SIZE CLASS ANA	ANALYSIS: 0 <10 24 0 25-50 N >50
STANDING SNAGS:	IS: K <10 K 10-24 N 25-50 N >50
ABUNDANCE CODES:	S: N=NONE R=RARE O=OCCASIONAL A=ARUNDANT
COMM, AGE	
SOIL ANALYSIS	
MOISTURE: 10	OF ORGANICS: 2
	/ YARIABLE DEPTH TO BEDROCK: 15.5 (cm)
COMMUNITY CLASS	CLASS: ELC CODE
COMMUNITY S	SERIES:
EO	ECOSITE:
VEGETATION TYPE:	I TYPE: UNIVERSAL LEGAL LEND LOCM2-2
INCLUSION	N
Notes:	
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COMMUNITY PROFILE DIAGRAM

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<u> </u>		SITE	NRP	2			
		POLYGON:	5				
STAND		DATE:	Juno	20 2016	5		
CHARACTERISTICS	ò	SURVEYOR(\$):					
TREE TALLY BY SPECIES:	Ċ;						
PRISM FACTOR	٢						
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL.
W Ordon	Ð	14				25	600
WITE W		1.					3 %
Central.	-					1	3 %
W Dak	Pr					1	3 %
							4
TOTAL	H	14				301	100
BASAL AREA (BA)	28	12					
DEAD	ŝ	4					
STAND COMPOSITION:	1						
			l 1				

Distribution - continued - can tracke & poop

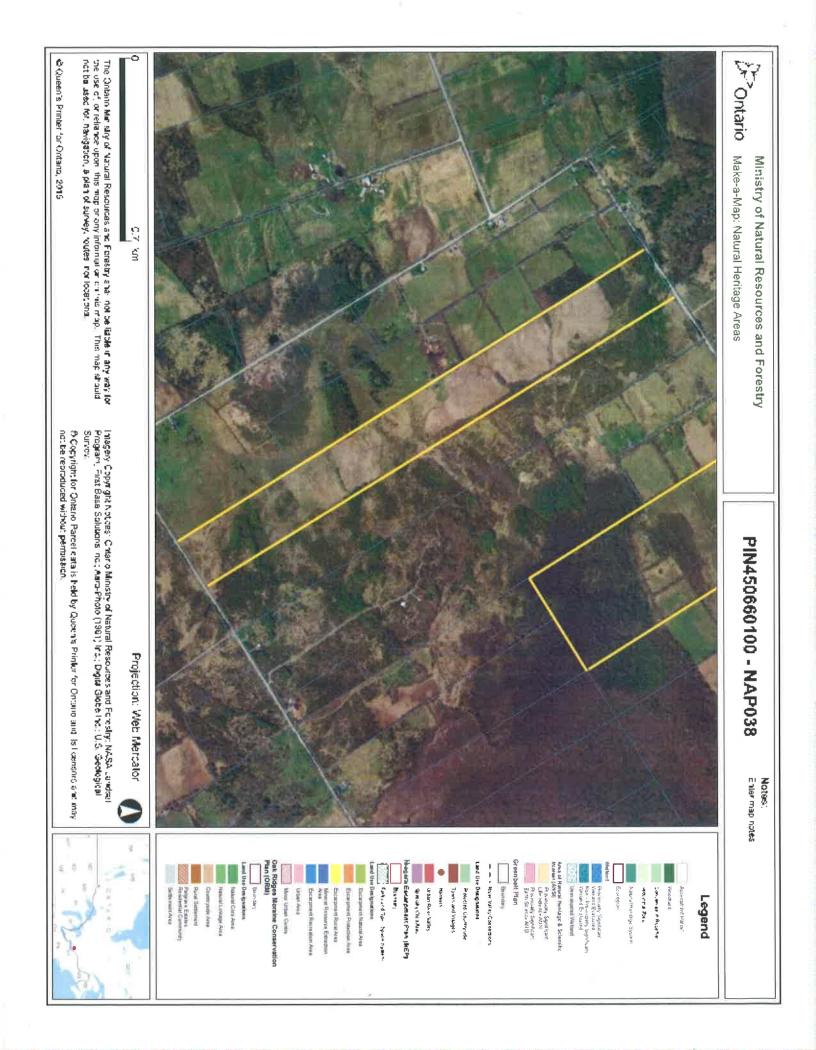
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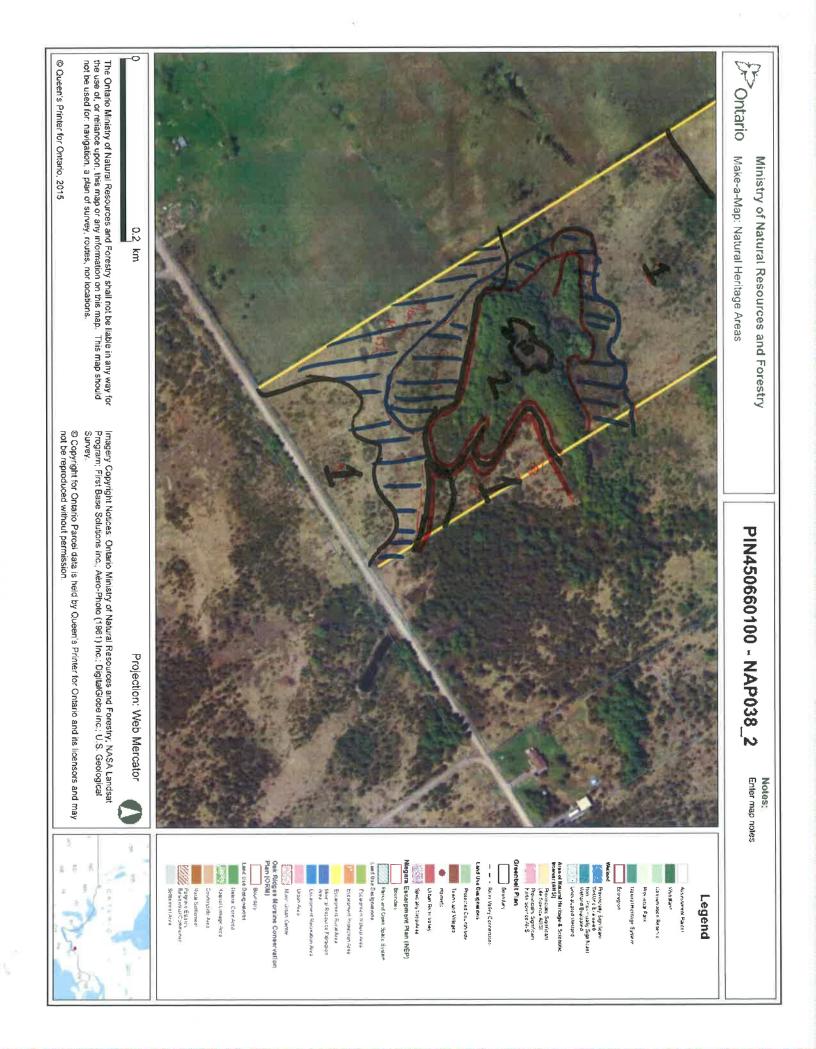
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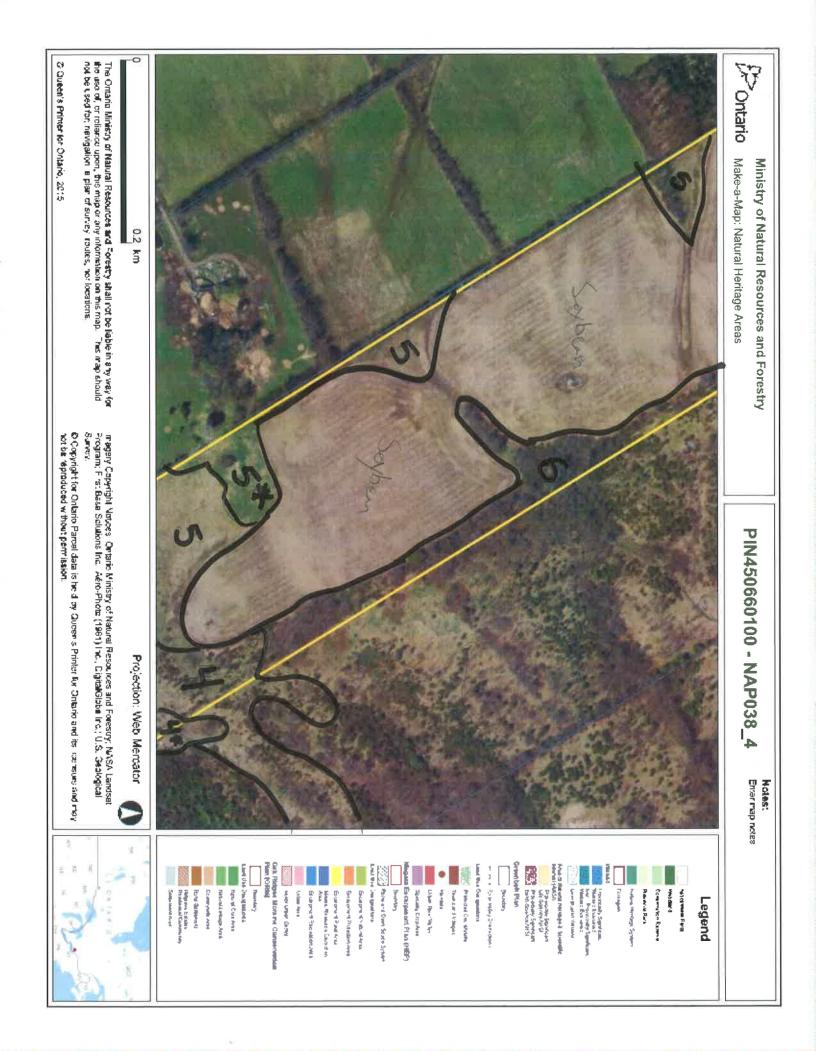
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						CWM	20	99	S.	999	020	270	0/0	9	/	(1		AL	2	26 Sen	~			n Asuret	0		
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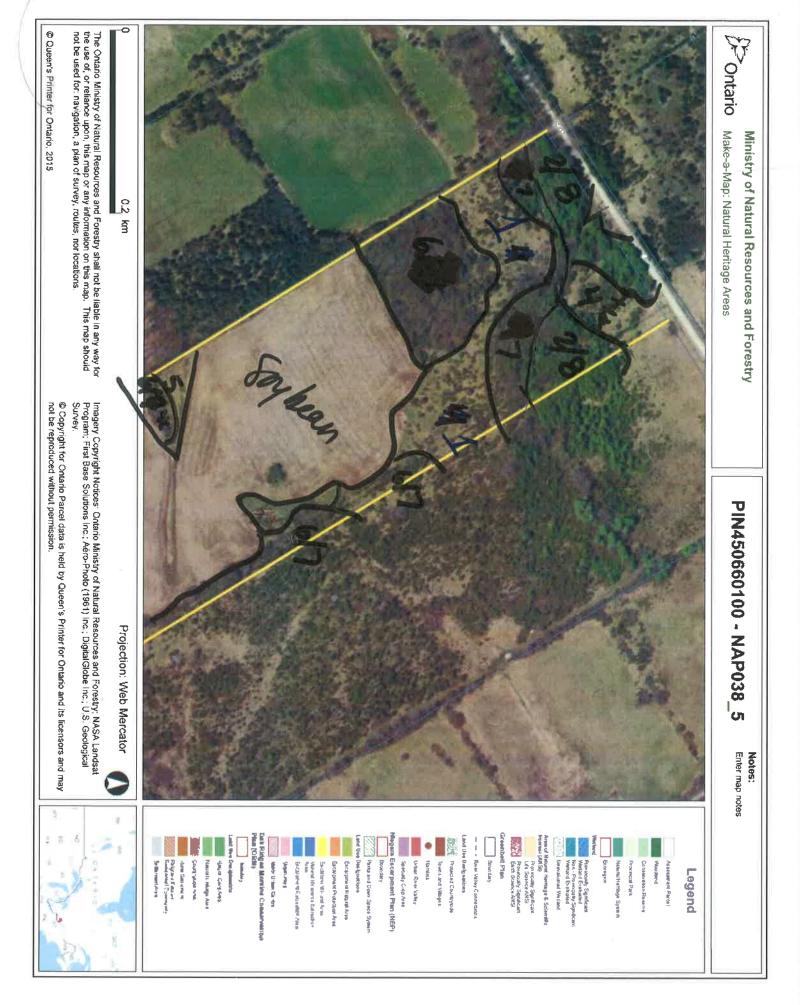
		Juli A	S. Seger	
John Charles	With Lang	Lawyetch Martan B.F.J. Jelan Sedee St Doch St Doch St	Wild Cent	PLANT SPECIES LIST ABUNDANCE CODES. R= SPECIES CODE
JUN Juniona		2 2 2 2 2 2 2 2 2 2	PHOOD > PHOO	S.I.E. FCLYGAN: DATE: SURVEYORS): 1 SURVEYORS): 1 RARE 0=0CCASIONAL A=1 LAYER LAYER COL
Acyb Kobu +1	Same berr	HUMPARY Bricklash	Se Fritzer	BATIS: DATIS: Inclurence: SURVEY: CRUSS: Inclurence: SURVEY: SURVE
aĉed Sec				
		turky twee	North Contraction	COL AND











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NOTES	COMPLEX	INCLUSION	VEGETATION TYPE: UN- Mash Milled Fatterion M. R. R. M. R.	ECOSITE: Unadata	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION: ELC CODE		MOISTURE: DEPTH OF ORGANICS: (cm)	ALYSIS:	COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH	ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT	< 10 10 • 24 25 - 50	<pre>< 10 10-24 25-50 ></pre>	SIZE CLASS AMALYSIS: < 10 10 - 24 25 - 50 > 50	BA:	CVR CODES D* NONE 1= 0% < CVR < 10% 2= 10 < CVR : 25% 3= 25 < CVR : 50% 4= CVR > 60%	25 m 2=104HT425 m 3=24HT410 m 4=14HT42 m 8=0.54HT4 m 8=0.24HT40.5 m 7=HT40.2 m	GRD. LAVER AND LL RADS (00. Children) Caro, Van Vinter	21	1 CANOPY 3 SUB_CANOPY	STAND DESCRIPTION: SPECIES IN ORDER OF DECREASING DOMINANCE (int to 4 to 1	G TREED	G SINULUW WATER G SEACH/ BAR G SINULUW WATER G SAVAD DUNE G SHRUB G SWOOD AND	G CARB. BEDRK. G CLIFF G DECIDUOUS	G ACKDIC BEDRK G TABLEMAD G UCHEN	G PARENT MIN. 2 TERRACE GRAMINOID	G LACUSTRINE G NATURAL G PLANKTON		POLYGON DESCRIPTION	UTIME:	DESCRIPTION & CONTRACTOR DATE TAME Start 11.00	LIST NAV 035 POLYSON: 5
AL.	determined		Notes:	11		ŦŦ		11				TT	COMMUNITY PROFILE DIAGRAM			STAND COMPOSITION:	DEAD	BASAL AR	TOTAL									S TALLY 1 TALLY 2 TALLY 3 TALLY 4 TALLY 5 TOTAL	PRISM FACTOR		TERISTICS		

Dr Position Aspect	SOILS ONTARIO				SURVEYOR(S):	Dr Position Aspect % Type Class 7 FASTING	Position Aspect % Type Class Z EASTING	- / / S - A					1 2 3 4				· · · · · · · · · · · · · · · · · · ·		Cher la	COURSE FRAOMENTS	TEATURE	COURSE PRACAILENTS	3407/21		EFFECTIVE TEATURE	SUPPACE STOP MESS	SURFACE ROCIONEES	DEPTH TO / OF	NOTTLES	GLET	BEDROCK	WATER YARKE	23	OEPTIN OF ORCAMICS	_	SKRE DISC #1			SACE DISC 141	PORE SCE DISC #1
						ONINLAU	ORTHING	1221	1				Ch.																											

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 ELC
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 PLANT SPECIES
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 LIST
 SURVEYOR(S):

 LAYERS:
 1= CAMOPY

 ABUNDANCE CODES:
 R = RARE

 0 = OCCASIONAL
 A = BUNDANT

 DATE:
 SURVEY 3 = SURVEYOR(S):
 20 4 75 50-11-11 Overve え 5 Þ 7 2-1-2 reaks a ÷ SPECIES CODE ano 50. ~ 204 Butter Moves SAS hist Rent 7 Ţ Carl -7 T ŝ 3 è 1 2 3 4 LAYER 0 70 0 0 + 0 0 Þ 0 ろ 0 × 8 Bric ς. Humeleen N Tredum 73 SPECIES CODE 0.0 Ver M Mar ÷ Cin b-Ģ 1 Z 5 À, <u>.</u> ð * N W LAYER ろえ 入 > た * 8

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nucles: regime	COMPLEX	INCLUSION	VEGETATION TYPE: Sugs Muple Errest FODMS-8	ECOSITE:	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION: ELC CODE	US VARIABLE DEPTH TO BEDROCK: 25	SOIL ANALYSIS: TEXTURE: (DEPTH TO MOTTLES / GLEY g = 7 59 G = 7 79 MOISTURE: () DEPTH OF ORGANICS: 99 G	COMM.AGE: PIONEER YOUNG MID.AGE V MATURE OLD GROWTH	ODES: N + NONE R = RARE O + OCCASIONAL A = ABU	X <10 Z 10.24 Z 25.50 Z	SIZE CLASS ANALYSIS: 0 < 10 1 10.24 4 25.50 0 > 50	STAND COMPOSITION: BA:	CVR CODES OF NONE 1= 0% < CVR x 10% 2= 10 < CVR x 25% 3= 25 < CVR x 00% 4= CVR > 00%	AVER IS IN STATE AND A STATE A	UNDERSTOREY 35 1 White Pine o White	8	 STAND DESCRIPTION: SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	TREED	G SHRUB	G CAREL BEDRIK, G CREWICE / CAVE COVER G MIXED	BASIC BEDRIK G CULFF	G PARENT MIN. G TERRACE G ACIDIC BEDRAC G TABLELMID	G CULTURAL G PLANKTON	SUBSTRATE	POLYGON DESCRIPTION	CLASSIFICATION UTM2: UTME: UTMN:	DESCRIPTION & DLC RM/S DATE TIME start	INT NAPO38 PO
Horst (2-3) - FODINS=8 Morst (4-6) - FODINS=8	1CW Works War		Notas:	<u> </u>					тт 			COMMUNITY PROFILE DIAGRAM				ALL BLOOKING BASALABEA IBAN		7			White Ash 1	3	Am	Shuring S 1112	SPECIES TALLY1 TALLY2 TALLY3			CHARACTERISTICS SURVEYOR(S):		
									1, 109 CH (+	Jane 17	Marin Light					UUT									TALLY4 TALLY5 TOTAL AVG					

		LÉGEND-CLASS	SOL KURVEY MAP	MARKED IN LINOW	M 2600 325 3004	id bittleres source in	OBLITH ME ORDANICS	Starkogens	WATER FARLE	NEO/COLD.	¢LEV	MOULTER	DEPTH TO / OF	AND ALL RUCKINESS	SUNPACE ETCHNEES	DATION LEADING	COUNTERINGINGER	C TEQUES	OOV ROLE FI	B "botume:	COUNTRE FI	A TP21UM5			Ç X	2.0	10		\rightarrow		TECTURE # HORGOM	SOIL	CN	4	ω	2	Property in the second			SOLS	п	,
																								-	2	CU CU	N.Y	CYA	Z	>							Position					
																															F	y					Y. Type	Slope	SURVEYOR(S):	DATE:	POLYGON:	SITE:
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9 j	Anna Press	1 001		avial a	NA.																				27	5	Ownthin when	Hemleck Dances	W TW I IN WITH	N K K K			at the A R R James b	IN HAM SR		COL SPECIES CODE	ADVINUARY CUVES: K * KANGE U = OCCUSIONAL A = ABURIJANT D = OCMINANT	LAYERS: 1= CANOPY 2= \$UB-CANOPY 3= UNDERSTOREY 4= GROUND (GRD)	LIST SURVEYORIS): 90 CL2			

			ION	INCLUSION
the Fac \$51-1	inter Cally bear	y white in		VEGETATION TYPE:
			ECOSITE:	
			SERIES:	COMMUNITY SERIES:
		-	CLASS:	COMMUNITY CLASS:
ACC COR		TION:	CLASSIFICATION:	COMMUNITY
	EDROCK:	DEPTH TO BEDROCK:	VARIABLE	HOMOGENEOUS, /
C ST	RGANICS:	DEPTH OF ORGANICS:		MOISTURE:
= 13 10 G= 140	DEPTH TO MOTTLES / GLEY	DEPTH TO MO	why CN I	
1 .			S	SOIL ANALYSIS
MATURE OLD GROWTH	MID-AGE	YOUNG	- 1	COMM. AGE:
= ABUNDANT	# OCCASIONAL A			DENDRALL' LOGO.
25-50 2 > 50	N 10-24 1	2 <i>∠</i> <10	Ϋ́, Ϋ́	STANDING SNAGS:
	A 10-24 1	IR <10	TASI2:	SIZE CLASS ANALYSIS:
4= 51% × 60% BA: ↓	20-10-CUR-25% 3-22-CO/9-60%	8 8		CVR CODES
V1m 6=02 <htv05m 7="HT<02m</td"><td>m 4+1977121 =0.54711m</td><td>ALT ALT OF</td><td>12 149</td><td>4 GRD. LAYER</td></htv05m>	m 4+1977121 =0.54711m	ALT ALT OF	12 149	4 GRD. LAYER
	454	Porckiv v	5-	3 UNDERSTOREY
		× ++	20	2 SUB-CANOPY
	del 1	Whitere	73 12	1 CANOPY
SPECIES IN ORDER OF DECREASING DOMINATION (199 DOT 19)	ROMER OF DECREMENTING	(>> MUCH GREAT	HT CVR	LAYER
POMINANCE (no to 4 so)	NAME AN ADODEACING		IPTION:	STAND DESCRIPTION:
G SAVAARAH G WOODLAND G POREST- G PLANTATION	G OPEN G SHRUB G TREED	G BOURD		G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK
	COVER	G BREVICE - CAVE	CANER BEECH	SITE
GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU GRANINUU		G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G CUIFT	PARENT MAN, MOLDOC BROAKS	
	G CULTURAL	G LACUSTRINE G RIVERINE	G ORTANIO G MINERAL SOL	G TERRESTRIAL
PLANT FORM COMMUNITY	HISTORY PL	TOPOGRAPHIC	SUBSTRATE	-
•			DESCRIPTION	POLYGON DES
1 m	UTMN:	TIME:	nuns Inu	
TIME: start <u>6.3.</u>	22	14.5	SURVEYOR(S)	COMMUNITY
1				

ELC		SITE:					
Ē		DATE:					
CHARACTERISTICS	S	SURVEYOR(S):	(S):				
TREE TALLY BY SPECIES:	ŝ						
PRISM FACTOR							
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	AVG
Whiteced	7	19	22				
		-					
a							
				T		Ť	
TOTAL	2	19	25				100
BASAL AREA (BA)	38	54 -2	5				
DEAD		ų,	0				
STAND COMPOSITION:	i.						
COMMUNITY PROFILE DIAGRAM	DIAGRA		~				
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ELC	G	SITE: POLYGON:					ELC	SITE				Ц
SOLS ONTARIO	(ARIO	DATE:					PLANT	DATE:				
		Slope	110	_				SURVEYOR(S):				Ц
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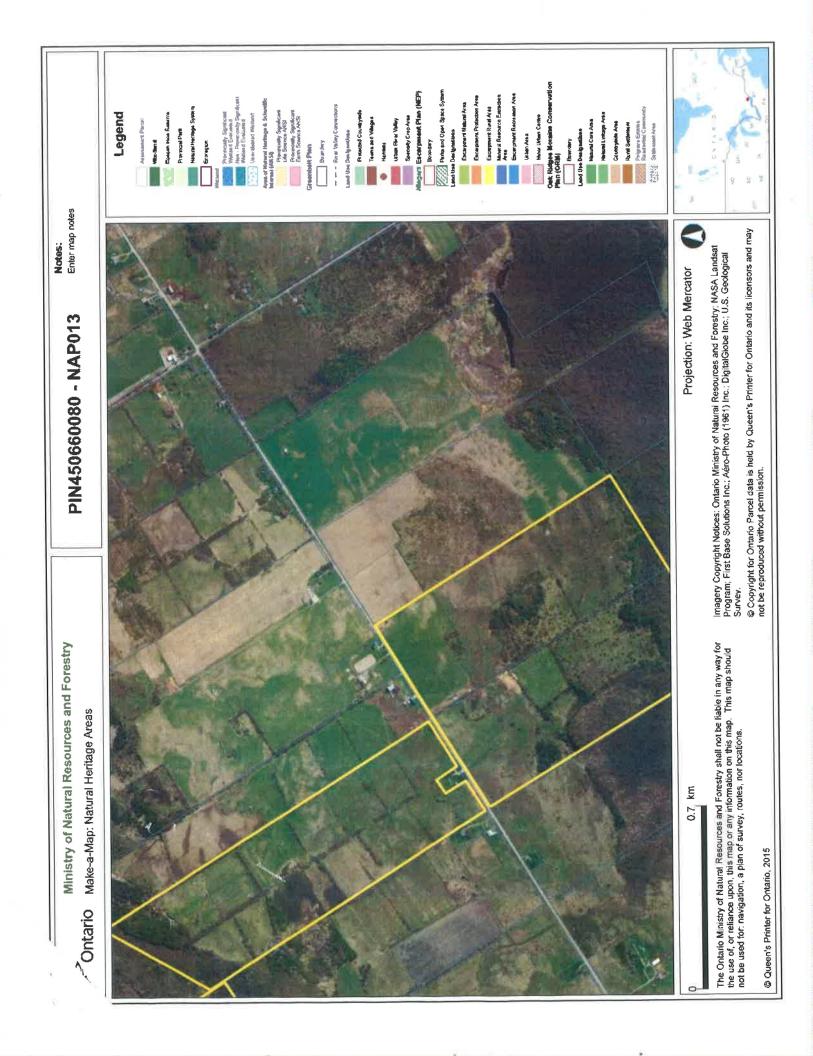
G OPEN WATER G SURFICIAL DEP. G BEDROCK Сі текеротна, Сі метькию Сі лецімпо Notes: COMMUNITY DESCRIPTION & CLASSIFICATION CVR CODES 3 UNDERSTOREY COMMUNITY CLASSIFICATION: TEXTURE: COMM. AGE : DEADFALL / LOGS: STANDING SNAGS: SIZE CLASS ANALYSIS: STAND COMPOSITION: HT CODES: 4 GRD. LAYER N -POLYGON DESCRIPTION HOMOGENEOUS / VARIABLE MOISTURE: SOIL ANALYSIS ABUNDANCE CODES: STAND DESCRIPTION: COMMUNITY SERIES: SUB-CANOPY COMMUNITY CLASS: LAYER SYSTEM VEGETATION TYPE: ELC CANOPY SITE INCLUSION COMPLEX ECOSITE: LINZ: UTME 0** NONE 1= 0% < CVR = 10% 2* 10 < CVR = 25% 3= 25 < CVR = 60% 1=>25 m 2= 104HT-25 m 3=24HT-10 m 4=14HT-2 m 8=0.54HT-1 m 8=0.24HT-0.5 m 7=HT-0.2 m SITE ର ଜ ଦେଦଦ 푝 N SUBSTRATE CARB. BEDRK BASIC BEDRK ACIDIC BEDRK PARENT MIN. MINERAL SOIL ORGANIC N = NONE CVR PIONEER U Joyn-Wahar N BV-113+ Whi toma **CUME** Many G RAVENSTRIME GRAVENINE G RAVENINE G RAVENNO G RALLEY SLOPE G RALLEY SLOPE G RALLEY RALLEY CALLEY CALLEY CALLE G CREVICE / CAVE SPECIES IN ORDER OF DECREASING COMINANCE (up to 4 sp) (>> MUCH GREATER THAN: > GREATER THAN: = ABOUT EQUIAL TO) DEPTH TO REDROCK. SOF DEPTH OF ORGANICS: DEPTH TO MOTTLES / GLEY R = RARE 1 rs. 7 TOPOGRAPHIC FEATURE YOUNG oka with Green Biternet < 10 5 â 1000 したのシイ GA. (anon O = OCCASIONAL Chercipe thorn DATE G OPEN G SHRUB G TREED G NATURAL \$ Þ HISTORY COVER MID-AGE gived alived 10 - 24 10 - 24 10 - 24KN-Land Leves / funts; anther legrey (Lanc, Weeping Willow) 201 N UNMU: **С** || G SUBMERCEN G SUBMERCEN G GRAMINOID G GRAMINOID G GRAMINOID G GRAMINOID BRYOPHYTE G CONFEEROUS IT A = ABUNDANT POLYGON: 2 PLANT FORM 0 Sw 101 504 TIME 25 - 50 4= CVR > 80% V \$-3 LMDOX 3 26 - 53 P start ELC CODE GG PLANKE G PLANKA G PLA 入 CN 本 S ۵ ۱ BA COMMUNITY Q, 7 20 11:15 ٩ こうちょう GROWTH v 50 ¥ 50 v 50 (cm) (Cm) シーン べしいろ L^{+} des Notes: 1.1 11 STAND COMPOSITION: COMMUNITY PROFILE DIAGRAM TREE TALLY BY SPECIES MIL Som SHITISME BASAL AREA (BA) The star 0 main 9下京の市5 STAND CHARACTERISTICS 大さ PRISM FACTOR ξ ELC t TOTAL DEAD 5 TALLY 1 ļ \mathcal{A} Ŧ Would be - small strip DATE POLYGON: SURVEYOR(S): TALLY 2 1 0 and we walk the walk TALLY 3 H. TALLY 4 TALLY 5 Kie A 1. F.C. TOTAL. Silver [A] Carp-REL. 100 55

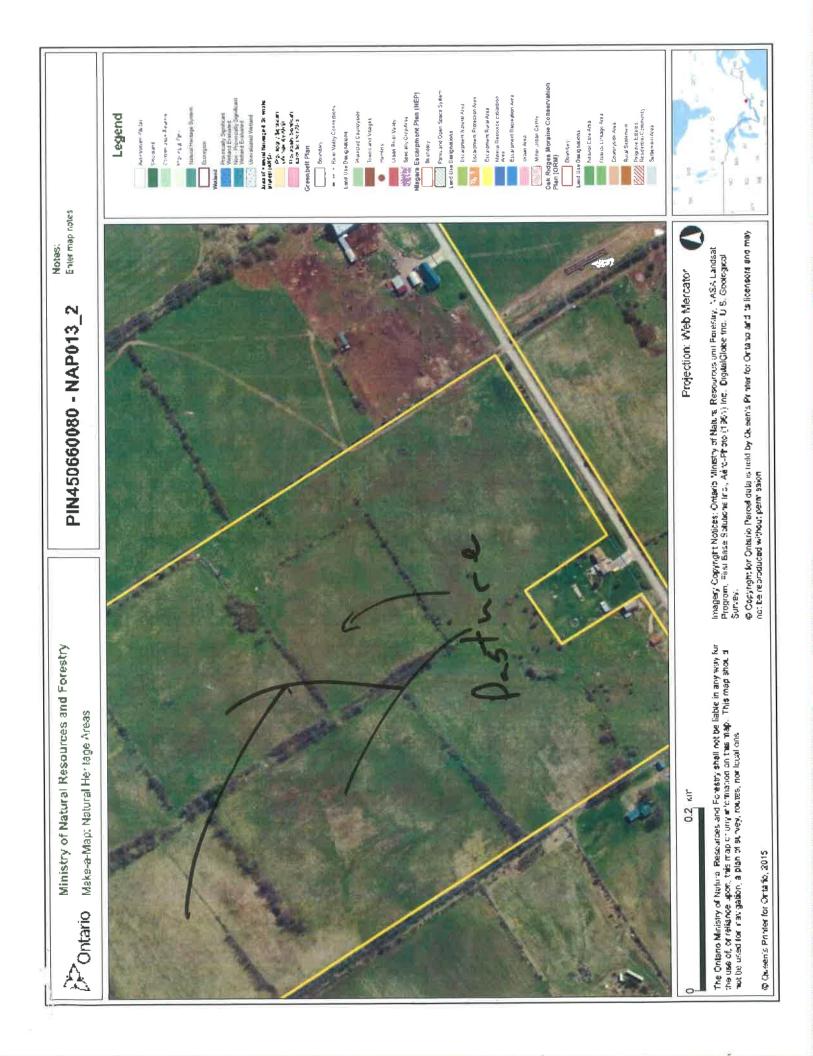
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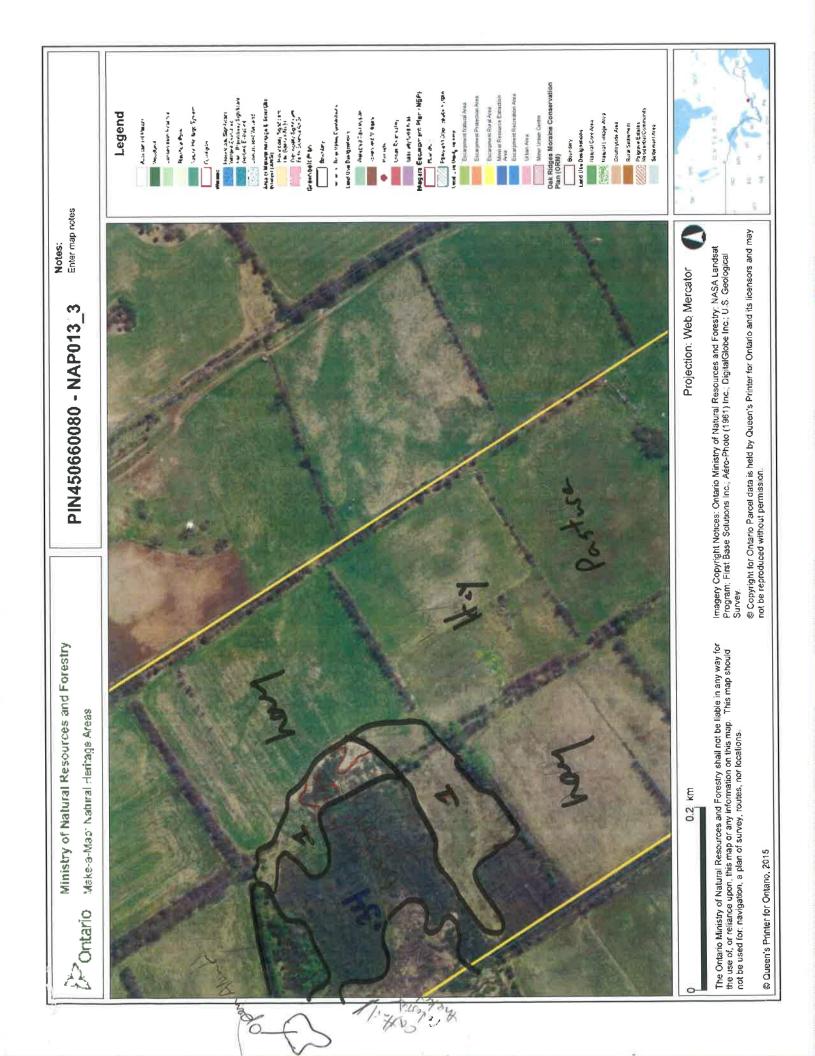
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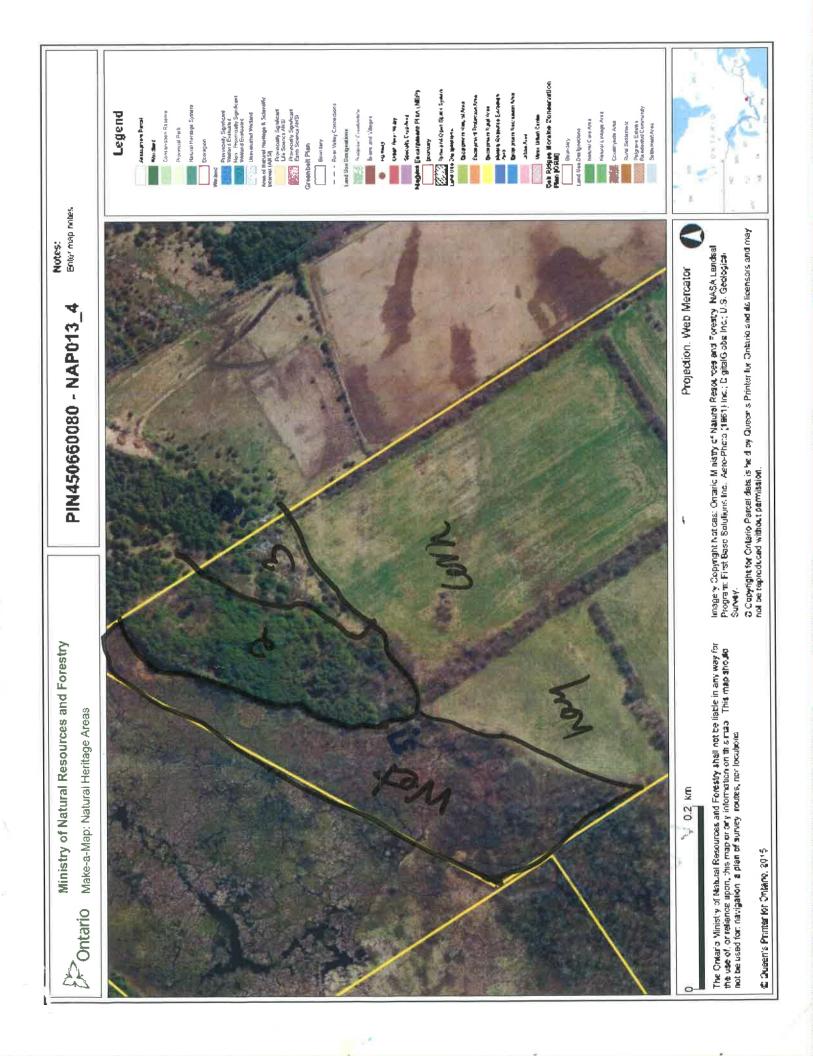
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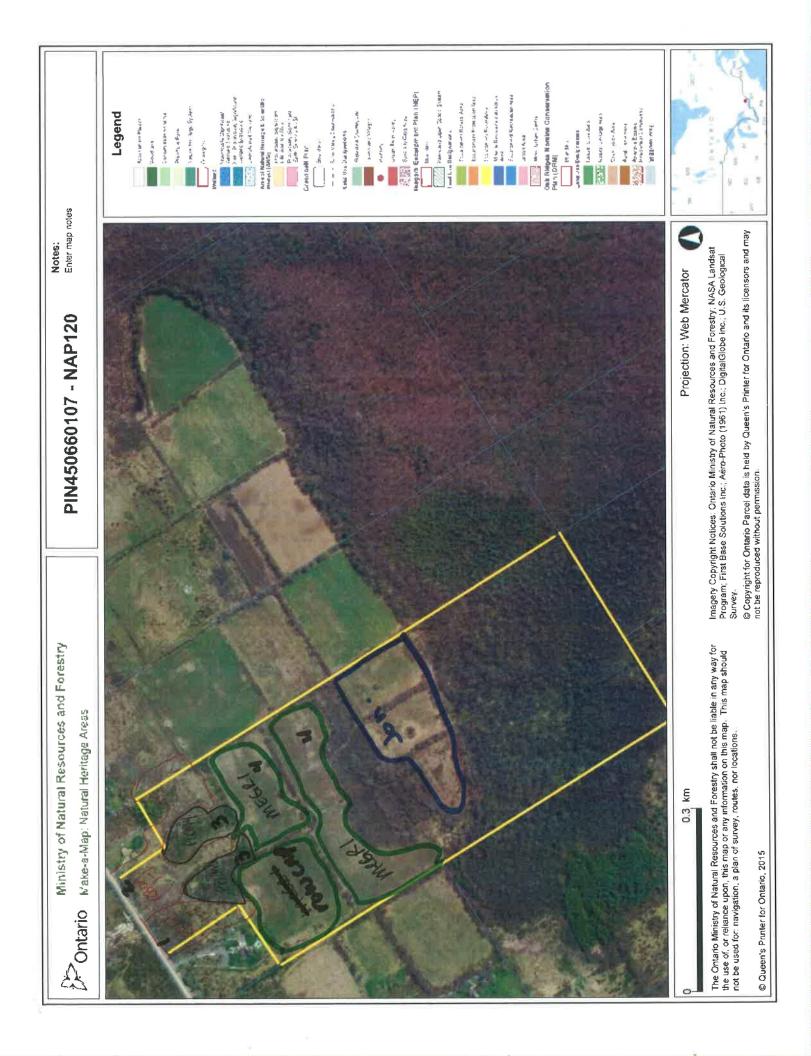
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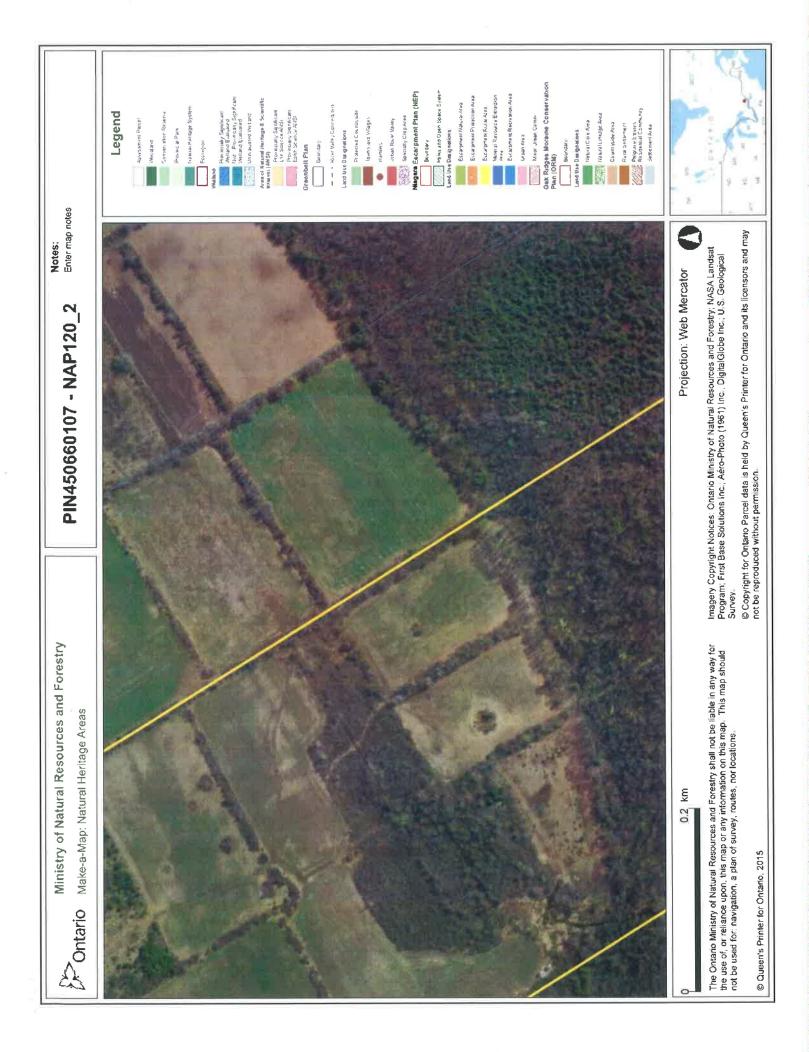
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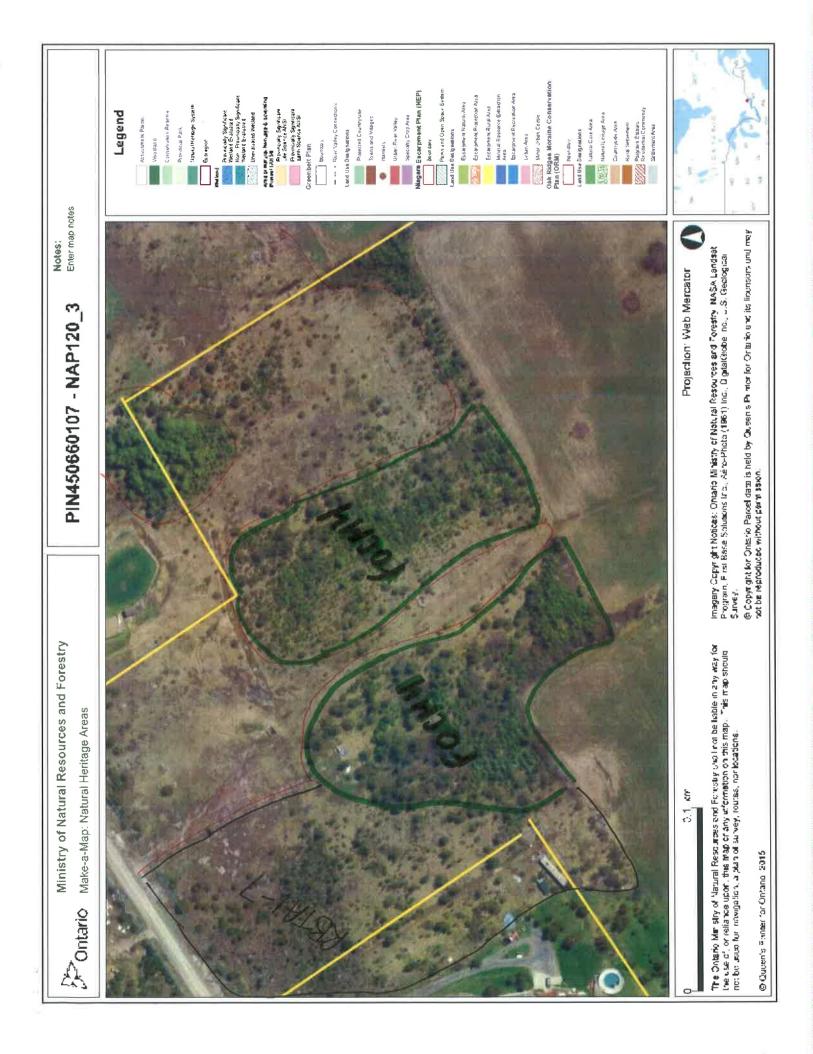
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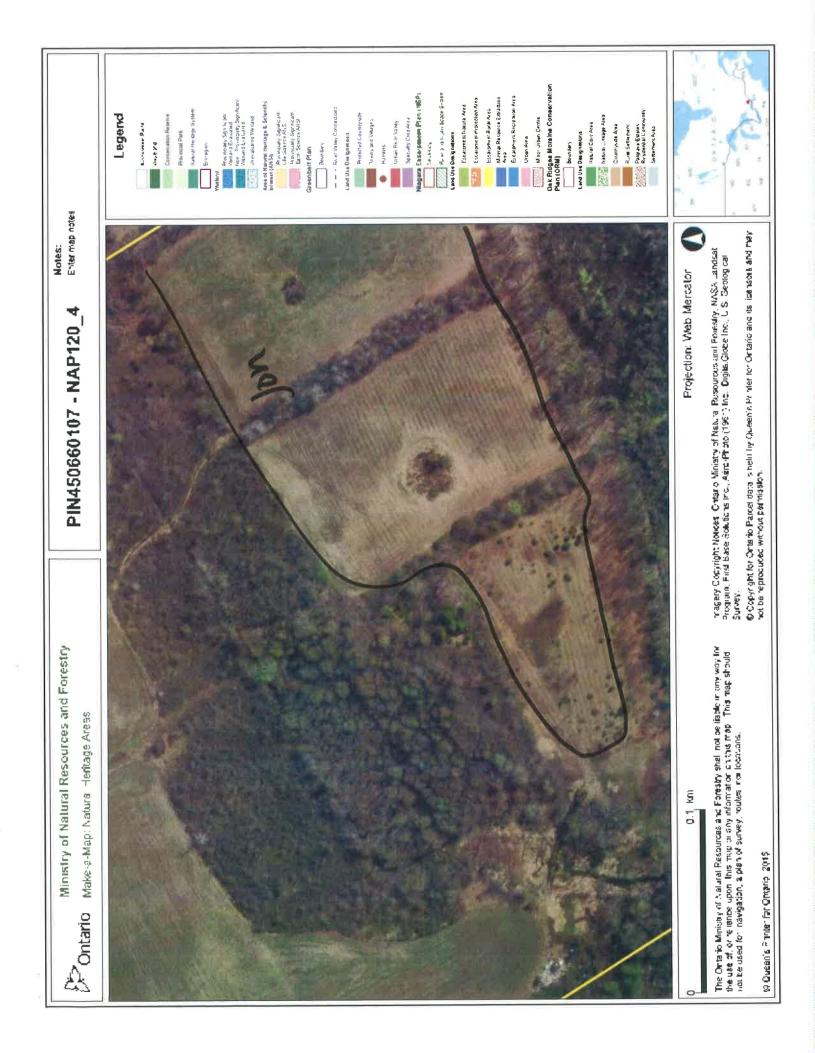
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MONE LIGHT MODERATE HEAVY MONE LOCAL MIDESPREAD EXTENSIVE D = DISFLATY D = DISFLATY MONE LIGHT MODERATE HEAVY No No No MONE LIGHT MODERATE HEAVY No No No MONE LIGHT MODERATE HEAVY DID DISTRACTION No MONE LIGHT MODERATE HEAVY DID DISTRACTION NO MONE LIGHT MODERATE HEAVY DID DISTRACTION NY = YOUNG MONE LIGHT MODERATE HEAVY DIE NY YOUNG MONE LIGHT MODERATE HEAVY DIE YO YOUNG MONE LIGHT MODERATE HEAVY DIE YO YO = YOCALIZATION MONE LIGHT MODERATE HEAVY DIE YO YOCALIZATION MONE LIGHT MODERATE HEAVY YA	LOCAL	_		BREEDING BIRD - PROBABL					
D LOCAL WIDESPREAD EXTENSIVE MODERATE HEAVY D D DISTRACTION NU = USED NEST 1 LIGHT MODERATE HEAVY D D DISTRACTION NY = YOUNG 1 LIGHT MODERATE HEAVY D DISTRACTION NY = YOUNG 1 LIGHT MODERATE HEAVY D DISTRACTION NY = YOUNG 1 LIGHT MODERATE HEAVY DIFTER WILDLIFE EVIDENCE: YO = YOCALIZATION 1 LIGHT MODERATE HEAVY DIFTER WILDLIFE EVIDENCE: YO = YOCALIZATION 1 LIGHT MODERATE HEAVY DIFTER WILDLIFE EVIDENCE: YO = YOCALIZATION 1 LIGHT MODERATE HEAVY DIFTER WILDLIFE EVIDENCE: YO = YOCALIZATION 1 LIGHT MODERATE HEAVY DIFTER WILDLIFE EVIDENCE: YO = YOCALIZATION 1 LIGHT MODERATE HEAVY DIFTER WILDLIFE EVIDENCE: YO = YOCALIZATION 1 LIGHT MODERATE <td></td> <td></td> <td></td> <td>T = TERRITORY A = ANXIFTY BEHAVIOL</td> <td></td> <td>ING</td> <td>P = PAIR V = VISITING N</td> <td>IEST</td> <td></td>				T = TERRITORY A = ANXIFTY BEHAVIOL		ING	P = PAIR V = VISITING N	IEST	
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LOCAL WIDESPREAD EXTENSIVE NE = EGGS NY = YOUNG LIGHT MODERATE HEAVY AE = NEST ENTRY V0 = VOCALLZATION LIGHT MODERATE HEAVY OTHER WIDLINE EVIDENCE: V0 = VOCALLZATION LOCAL WIDESPREAD EXTENSIVE DB = DISTINCTIVE PARTS H0 = HOUSEDEN LIGHT MODERATE HEAVY DP = DISTINCTIVE PARTS H0 = HOUSEDEN LIGHT MODERATE HEAVY DP = DISTINCTIVE PARTS H0 = HOUSEDEN LIGHT MODERATE HEAVY DP = DISTINCTIVE PARTS H0 = HOUSEDEN LIGAL MODERATE HEAVY DP = DISTINCTIVE PARTS H0 = HOUSEDEN				BREEDING BIRD - CONFIRMI DD = DISTRACTION		Ŧ	FY = FLEDGEI	SNUOY C	
LIGHT MODERATE HEAVY LOCAL WIDESPREAD EXTENSIVE LOCAL WIDESPREAD EXTENSIVE LIGHT MODERATE HEAVY RESPREAD EXTENSIVE FE = FEEDING EVIDENCE	LOCAL			NE = EGGS AF = NEST FNTRY	NY = YOUNG		FS = FOOD/FA	ECAL SACK	
LOCAL WIDESPREAD EXTENSIVE OB = OBSERVED V0 = VOCALIZATION LIGHT MODERATE HEAVY DP = DISTINCTIVE PARTS H0 = HOUSEDEN LIGHT MODERATE HEAVY TK = TRACKS FE = FEEDING EVIDENCE LOCAL WIDESPREAD EXTENSIVE SI = OTHER SIGNS (specify)	LIGHT	_							
UIGHT MODERATE HEAVY TK = TRACKS FE = FEEDING EVIDENCE LOGAL W0ESPREAD EXTENSIVE SI = OTHER SIGNS (specify)	LOCAL			0B = 0BSERVED DP = DISTINCTIVE PAR	cr	TION NO	CA = CARCAS FY = EGGS OI	S 2 YOUNG	
LOCAL WOESPREAD EXTENSIVE) LIGHT			TK = TRACKS		VIDENCE	SC = SCAT		
	COCAL	WIDESPREAD EXTENSIVE		SI = CINEX SIGNS (spe	scity)				

ELC SITE: ELC POLYGON: STAND DATE: CHARACTERISTICS SURVEYOR(S): TREE TALLY BY SPECIES: PRISM FACTOR	SPECIES TALLY 1 TALLY 2 TALLY 4 TALLY 5 TOTAL 9999920		COMMUNITY PROFILE DIAGRAM	
ELC SITE: MOL POLYGON: Z COMMUNITY DESCRIPTION & CLASSIFICATION & CLASSIFICATION & UTMAX: DATE: DATE: Start 1/00 DESCRIPTION & CLASSIFICATION & DLC DTMAX: DTMAX: DTMAX: DTMAX: 1200 POLYGON DESCRIPTION UTMAX: UTMAX: UTMAX: DTMAX: DTMAX: POLYGON DESCRIPTION SYSTEM SUBSTRATE POGGRAPHIC HISTORY PLANT FORM COMMUNITY	GIERRESTIGN GWILTERSTERME GWIT	STAND DESCRIPTION: LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) 1 CANOPY UNCH OREATER THAN: > GREATER THAN: = ABOUT EQUAL TO) 2 SUB-CANOPY Shirth of Species IN ANCH CEAL MUCH OREATER THAN: > GREATER THAN: = ABOUT EQUAL TO) 2 SUB-CANOPY Shirth of Species II ANCH CEAL MUCH ORESTOREY C CORP. Shirth of Associal to the As	N = NONE R = 10 N 10 - 24 N 25 - 50 N > N = NONE R = 34RE 0 = OCCASIONAL A = ABUNDANT PIONEER YOUNG MID-AGE MATURE OLD PONEER YOUNG MID-AGE MATURE OLD YARIABLE DEPTH TO MOTTLES / GLEY 9 = 9 + 9 9 = 9 + 9 0 = 9 + 9 XARIABLE DEPTH TO BEDROCK: A ELC CODE ASSIFICATION: ELC CODE A A SITE: A DPCM PON	menun 14pc No

	LEGEND CLASS	SOIL SURVEY MAP	MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	CARBONATES	WATER TABLE	BEDROCK	GLEY	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONINESS		COURSE FR	C TEXTURE		R TRYTING	TEXTURE	f	Ť,					TEXTURE & HORIZON DU COLING	SOIL 1		3 1 7	0	PIA PP Or Position As	SOILS ONTARIO		<u>-</u>
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										0	0		20		R		0	A						0	0	0	0	0		COL	LATERS: 1= CANOPY 2= SUB-CANOPY 3= UNDERSTOREY 4= GROU ABUNDANCE CODES: R=RARE 0= OCCASIONAL A= ABUNDANT D= DOMINANT	RVEYOR(S):	POLYGON:	E
Page of	-								1																					LAYER	4 = GROUND (GRD.) LAYER DOMINANT			

	POLYGON:				
MANAGEMENT /	DATE:	77			
DISTURBANCE	SURVEYOR(S):	(s): DCC			
DISTURBANCE / EXTENT	0	1	2	ы	SCORE 1
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0.5YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	(NONE)	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	THOLI	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	неалт	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	CYTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	неалт	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	неалу	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
Noise	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	TANK	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	ANON	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	ENON	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NON	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NON	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	НЕАЛ	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	(ANON)	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER Gove Oubshy.	NONE	LIGHT	MODERATE	HEAVY	

	¢ ī	SITE:		
		POLYGON:		
		DATE:		
	WILDLIFE	SURVEYOR(S):		
		START TIME:		END TIME:
TEM	TEMP (°C):	CLOUD (10th):	:ONIM	PRECIPITATION:
ŝ	CONDITIONS:			
POT	POTENTIAL WILDLIFE HABITAT:	HABITAT:		
	VERNAL POOLS			SNAGS
	HIBERNACULA			FALLEN LOGS

FALLEN LOGS	
HIBERNACULA	SPECIES LIST:

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	P = PAIR V = VISITING NËST	FY = FLEDGED YOUNG FS = FDOD/FAECAL SACK	CA = CARCASS FY = EGGS OR YOUNG SC ≠ SCAT
SM = SINGING MALE	D = DISPLAY N = NEST BUILDING	NU = USED NEST NY = YOUNG	VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE
EVIDENCE CODES (EV): BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT	BREEDING BIRD + PROBABLE: T = TERRITORY A = ANXIETY BEHAVIOUR	BREEDING BIRD - CONFIRMED: DD = DISTRACTION NE = EGGS AE = NEST ENTRY	OTHER WILDLIFE EVIDENCE: OB = OBSERVED DE = DISTINCTIVE PARTS TK = TRACKS SI = OTHER SIGNS (specify)
		SM = SINGING MALE D = DISPLAY N = NEST BUILDING	SM = SINGING MALE D = DISPLAY N = NEST BULDING NV = VOUNG NY = YOUNG

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POLYGON:	TIME:		ž		PLANT FORM	G PLANKTON G SUBMERGED G EL CATINGLIVE	5 FORB	D BRYOPHYT	2 CONFEROU	O MIXED					IG DOMINA					1	60% 4° CVF			25.	25 -	25 -	A = ABUNDANT	MATURE		1	1		_		-	-51			
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							PORE SIZE DISC #1	
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						30	BEDROCK	
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MANAGEMENT /	DATE:	1			
DISTURBANCE	SURVEYOR(S):		1		
DISTURBANCE / EXTENT	•	-	64	3	SCORE 1
TIME SINCE LOGGING	(230 VES)	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING		FUEL MUDD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	Novex	LOCAL	WIDESPREAD	EXTENSIVÉ	
SUGAR BUSH OPERATIONS	(HORE)	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	ONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	ADME	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	пент	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	MONE	LOCAL	WIDESPREAD	EXTENSIVÊ	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF ALIEN SPECIES	NONE	Guth IV	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	Alester (OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	Callon	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	(Jane)	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	CINDA	LOCAL	WDESPREAD	EXTENSIVÊ	
DUMPING (RUBBISH)		LIGHT	MODERATE	НЕАУ?	
EXTENT OF DUMPING	NONE	LOCAL	VIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT		LIGHT	MODERATE	НЕАИҮ	
EXTENT OF DISPLACEMENT	CIRE	LOCAL	WDESPREAD	EXTENSIVE	
RECREATIONAL USE	None Party	LIGHT	MOC ERATE	HEAVY	
EXTENT OF RECR. USE	- Come	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	MONE	SLICHT	MODERATE	INTENSE	
EXTENT OF NOISE	(A JNE)	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	Y	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	(franke	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	(Alaxed)	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	(Jana II.	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)		LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	Z	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	(He H	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	3	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	(HONE)	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	man	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	(TONES	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	(Internet	TIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	Sour .	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER		LIGHT	MODERATE	HEAVY	
2.18.78		ITAKI	10000000	DVT DVD DVD	_

site:	POLYGON:	DATE:	SURVEYOR(S):	START TIME: END TIME:	AUD (10th); WIND: PRECIPITATION:		ITAT:	SNAGS	FALLEN LOGS		 NOTES # TY SP. CODE EV NOTES #						
SITE:	POLYG	DATE:	SURVE	START	CLOUD (10th):		E HABITAT:				EV						
ī	ELC		WILDLIFE		TEMP (°C):	CONDITIONS:	POTENTIAL WILDLIFE HABITAT:	VERNAL POOLS	HIBERNACULA	ODECIES LICT.	TY SP. CODE						

PTERA F=FISH 0=OTHER	P = PAIR V = VISITING NEST	FY = FLEDGED YOUNG FS = FOODIFAECAL SACK	CA = CARCASS FY ≄ EGGS DR YOUNG SC = SCAT
H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER SM = SINGING MALE	D = DISPLAY N = NEST BUILDING	NU = USED NEST NY = YOUNG	VO ≂ VOCALIZATION HO ± HOUSE/DEN FE ⇒ FEEDING EVIDENCE
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ELC SITE: Loyalust NAPIZED	YORISI: DLA RK	TREE TALLY BY SPECIES:	PRISM FACTOR 2	SPECIES TALLY 1 TALLY 2 TALLY 3 TALLY 4 TALLY 5 TOTAL	Ked (onton : 1] 3	Withe leden: 1 1 3										STAND COMPARIZION:		COMMUNITY PROFILE DIAGRAM				1.1	Ĩ	1.1			T Notes:		
ELC SITE: LARTA POLYGON: S COMMUNITY SURVEYOR(S) RMG DATE: TIME: SLAT 20.0	UTME: UTMN:		SYSTEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY	G LACUSTRINE G NATURAL G PLANKTON CRIVERINE G CHUATURAL G SUBMERCED	G PARENT MIN G TERRACE G GRAMINOLO		G TALUS G COVER G COVER COVER COVER COVER	G ROCKLAND G BEACH BAR G BEACH BAR	G SHRUB G TREED	STAND DESCRIPTION:	I AVER HT CVR (>> MICH GREATER THAN > CREATER THAN > SROIT FOLIAI TO	SUB-CANOPY V LI	11 June come >> July	4 GRO. LAYER CT & Gross > Jack > Arler = Caldered	2018 1- 1041 - 2018 - 2-1041 - 2-1041 - 2-1042 - 0444	STAND COMPOSITION: ROLL ON STAND COMPOSITION: 2	O <10 A 10-24 N	K <10 K 10-24 V 25-50	Σ	COMM. AGE: PIONEER YOUNG VID. AGE MATURE OLD	IRE: Si C DEPTH TO MOTTLES / GLEY g = 1 6 G= 79	EOUS / VARIABLE DEPTH TO BEDROCK:	TION: ELC CODE	COMMUNITY CLASS:	COMMUNITY SERIES:	ECOSITE:	VEGETATION TYPE: 0 M- FRECH WHILE LEDGAR FOCME	INCLUSION PROVIDE TOPOLOGY TO	

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DISTURBANCE	SURVEYOR(S):	(S): DLC	,		
DISTURBANCE / EXTENT	0	-	2	3	score +
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	SNON	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LICHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	(LOCAL)	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATÉ	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHŤ	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHY	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHY	MODERATE	HEAVY	

C Ĩ	site:		
	POLYGON:		
	DATE:		
WILDLIFE	SURVEYOR(S):	ä	
	START TIME:		END TIME:
TEMP (°C):	CLOUD (10th):	:GNIM	PRECIPITATION:
CONDITIONS:			
POTENTIAL WILDLIFE HABITAT:	E HABITAT:		

SNAGS	FALLEN LOGS	
VERNAL POOLS	HIBERNACULA	

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F = FISH 0 = OTHER		
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D = DISPLAY N = NEST BUILDING BREEDING BIRD - PROBABLE: T = TERRITORY A = ANXIETY BEHAVIOUR

P = PAIR V = VISITING NEST NU = USED NEST NY = YOUNG OTHER WILDLIFE EVIDENCE: OB = OBSERVED DP = NISTINCTIVE PARTS TK = TRACKS SI = OTHER SIGNS (speeify) BREEDING BIRD - CONFIRMED: DD = DISTRACTION NE = EGGS AE = NEST ENTRY

FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK CA = CARCASS FY = EGGS OR YOUNG SC = SCAT VO = VOCALIZATION HO = HOUSEIDEN FE = FEEDING EVIDENCE Page of

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Page 2 of Z 30 Ph 34s Number(s)	08/69	HH/CH	CHI 9HJ	148/144	151/251																										
>10ha in size = 1 additional for each ha up to 30 UTM K 2 tes Fract No. 20	Codom SHMS																														5
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on: <10ha in size = u Trze height	10-10-	اكت	15 1	15m	12cm																										train a
ble woodland/polyg Cavity height(s)	7.8	8~	6 m	Sive	7-8-																										Factor -
High Quality Poten trees in the applica DBH (cm)	~ HOCK	rboom	~ 5000	~ for cu	* year																										5
ing: Identification of to best potential roos # of Cavities	-	-		•	1																										2 2 SE
Preparation for EOS Bat Monitoring: Identification of High Quality Potanial Roost Trees Addition for EOS Bat Monitoring: Identify the best potential roost trees in the applicable woodland/polygon: <10ha in size = up to 10 Tree # Specifics # of Cavities DBH (cm) Cavity height(s) Tree height	Dugar Magic	Ever Myle	Sugar Night	inger Magle	Syd Maple	8																									letech candidate trees with multiple cavities, identifying the location is the factor of the secretary is th
reparation . Tree #	• 1	~	~	*		÷	7	ev.	6	15	11	n	2	4	5	9	5	13	19	8	11	22	EZ	2	22	æ	ñ	2	£	99	etch cardida

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Description Project Name Link Project Name Long Link Project 05 End Time Start Time: LSOO End Time Easte: Start Time: LSOO End Time Easte: Polygon ID Veather Conditions: L20/0/10 Plo Fice Number 25km Jbh Plot Centre UTM 20ne:) Fice Number 25km Jbh Plot Centre UTM Syng nor Fice S ** Syng nor Syng nor Fice Lat ** Syng nor Syng nor Fice Lat ** Syng nor Plot Centre UTM Fice Lat ** Syng nor Plot Centre UTM Fice Lat ** Syng nor Plot Centre UTM Fice Lat ** Syng nor Plot for the for t	Person 5 zer. Livit Community Age: Young/Antil Age/Antilue/Industriants/Antil Age/Antilue/Industriants/Indust
A. Low Locity conject of Li 50.14 Positions: $1 \le 0.0$ End Time End Time East $1 \le 0.0$ Veather Conditions: $22^2 / 0/10$ AV $2 \le 10^2$ K Plot Centre UTM (Zone:) AV $1^2 \le 10^2$ K M J $1^2 \le 10^2$ K M	Community Age: Young/Anil Age Anature/2014 Gravesh Surveyoris: JOHN & Norry M mapped / Site survey 6 N. A comments for
$\frac{15 \text{ CO}}{\text{End Time}} \text{End Time} \text{Eather Conditions: } 2.2^{2} / 0/1.0 \text{ Weather Conditions: } 2.2^{2} / 0/1.0 \text{ Weather Conditions: } 2.5^{2} \text{ min} \text{ min} \text{ for Centre UTM} (Zome:) \\ \text{Weather Conditions: } 10^{2} \text{ min} m$	mapped / Site survey Cried
Mather Conditions: 22///10// rist Plot Centre UTM 2Scin Jbh Plot Centre UTM ** Plot Centre UTM	V Site survey bruch comments
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e woodland/polygo Cavity height(s)	7 m	E						II II II II II II II II II II II II II																			/	tites	
trees in the applicable DBH (cm)	94	Sa																										Les, Identifying the location of gaugices	
best potential roost # of Cavities		1							ļ	111																			
Identify the best potential roost trees in the applicable woodland/polygon: <10ha in size = up to 10 Tree # Species # of Cavitles DBH (cm) Cavity height(s) Tree height	Sirren Mel	ON I																										sketch candidate trees with multiple cavit	
a #	1		n	 -	5	ų	,		đ	9	11	11	-	1	2	×	 1	9	-			12	8	27	28	29	9	t candic	

Candidate Bat Maternity Roost Data Form		NAP038	
Use this form In FOD, FOM Protect Name:	Protect #: 12 76.7 4	on Giae	Community and Maria and Marine And Connet
Start Time: 12.00	End Time () ; 3 0	11, 2016	HMC HMC
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al Snae Density = total # cavity	Total Snae Density = total II cavity trees / III nlots > 05Ha)		
wher of Plots: Stee \$10har 10 m		(up to may 35 plots)	A APL. [

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t identification of H best potential roost 1 # of Cavities	_		Route Leading
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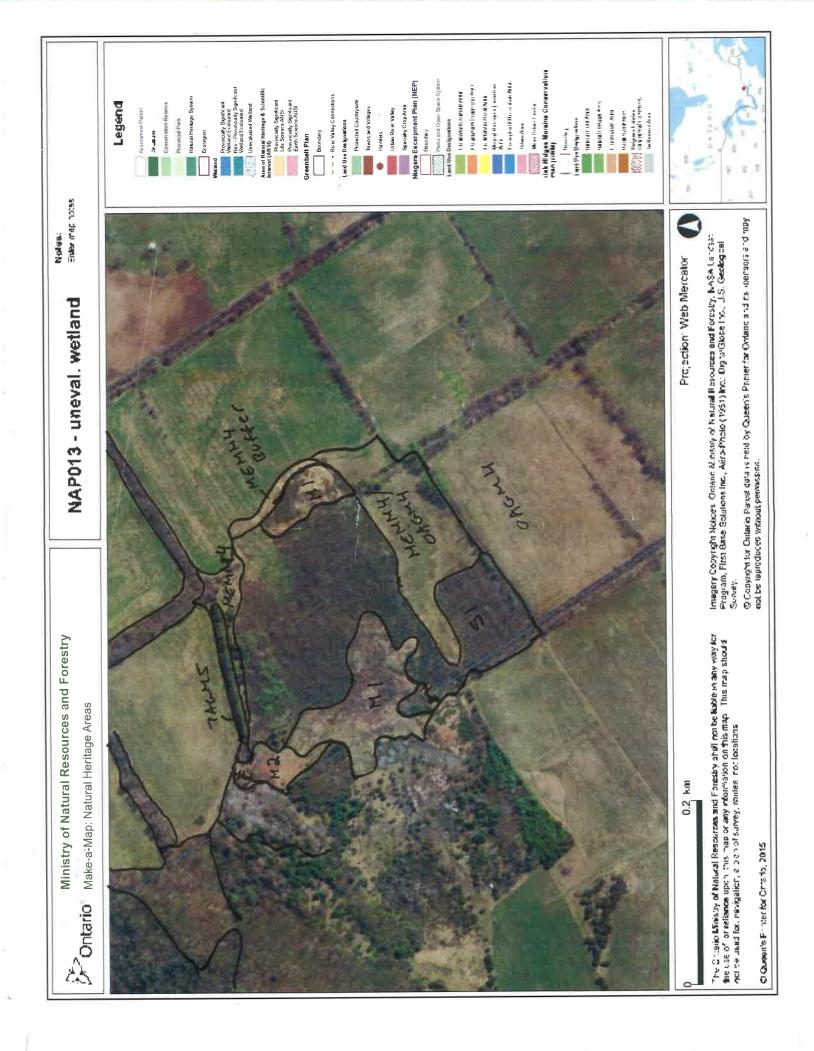
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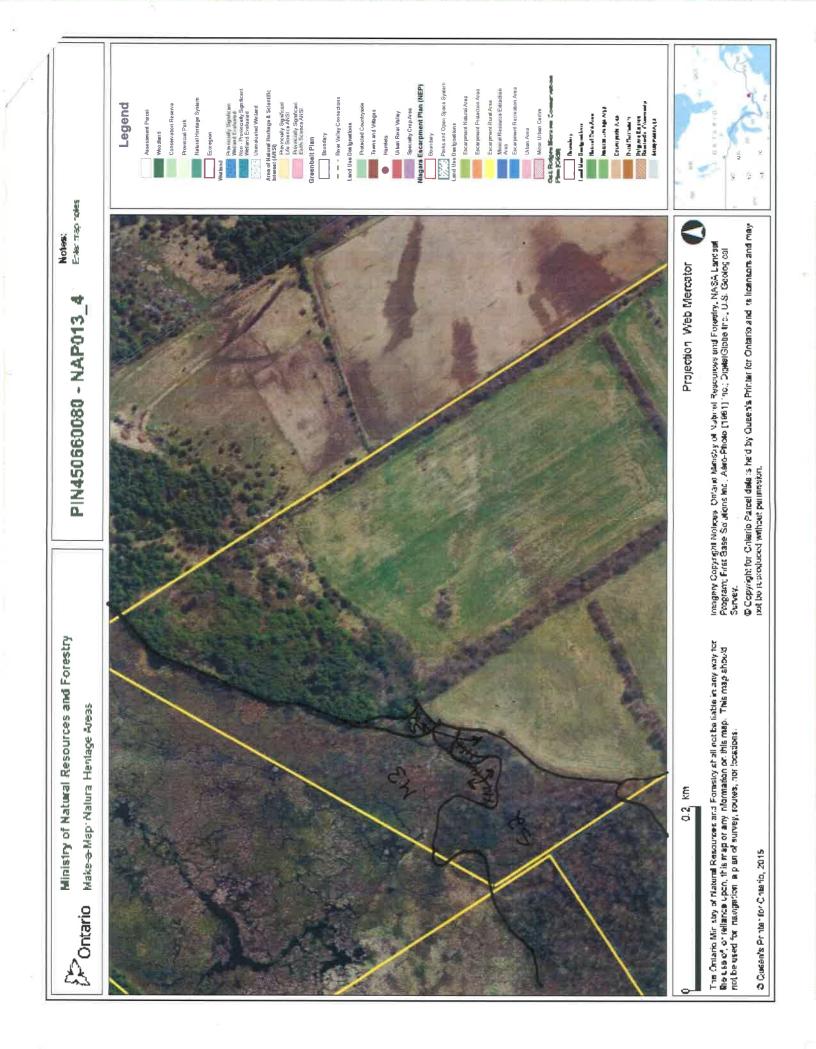
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	Tree height NP - 12M NP - 12M NP	
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	itiel roost trees in the applicable workies writes DBH (cm) (cm) 23:41 (cm) (cm) 23:41 (cm) (cm) 23:41 (cm) 23:41 (cm) 23:41 (cm) 23:41 (cm) 23:41 (cm) 24:41 (cm) 2	
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225cm had 12/14 4.4 1237.0 6 619 41 95 pupped incure when Bferit V - 11/12 hely 45h Suger walk, Warson 225 Cede. N En will S Community Age: Young And Age Macure / UM Scowib ł 20 C I I R >2500 hene 215 ceda house dis 450 トレ シーシン 15cml 5 - ash, with les - ina contrict 725 im >LSCH. Plots = 12.6m radius (= 0.75ha) 27/28.2016 オシノ C.BVL Comments GIT O 12 CM Public powe 1 >25 5 Cm 222 142324 41220 OSHANY, Plot Centre: Pre-mapped / Site survey Scolings Thursec prachy & Milmey Thijac ASA DGH. My Lett Surveyortsh (PD) Prilly ash, Rev Small int gradie Leve 3134 10han 2000 a bacing -laite herr prehlys auronal, Ceder >2550m mainly (idee, Cede 9000 dstavir mark Sart Yar 10-1186 CIL 1 m SVC. and 110. woi Gille Thursder 6 525 ノレーノー S Sugar 1 may Total Snag Density = lotal # cavity trees / (# plots # .05Ha) Number of Plots: Sites s10har: 10 plots (minimum); each extra hw. 1 plot (up to max JS plots) Ž NOUR Sugar Cider Cider Creter Thater 10 Crolow Cidur Polygon Size: Cide L'TU Calsa Sur Cucles 11.5 Ne 7.71 1 10:10 25/04/10) Weather Conditions: SUN 44 4 [[] (MUD2) MI WP19 -INVER Plat Centre O'fM Candidate But Maternity Roost Data Form Project #: 10 11919 11914 (1)043 WP33 WP 39 WPZG WP34 VVP22 WPIS 1.P2S E 2 am W (24 WPSU WP18 W 13 LAPS-End Time Project Name: LCUALLS P A swity treets 75cm dbh 0 Use this form in FOD, FDM OD 0000000 O Start Time: U. C.D 3 d 0 0 C 0 0 Hot Number Polygon ID Plot 11 PIDT 13 AL 1019 Plan 15 Plut 16 Plot 17 Not 13 Plat 23 Fine 22 Pint 23 PLo8-24 Plat 2.7 Plot 28 PL01.50 Plon 33 blac 34 Plat 10 Plot 12 DI YOU Pine 21 Plot 25 PICE 211 Plot 25 Plot 31 Phys. 13 PIDC 35 Plo1 4 Viel V Plot B Plor 9 Plot 2 Plat 1 Plat 5 P101 / 1 101.1

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SPECIES LIST:										

FAUNALTYPE CODESTITY: B=SIRD = AMMWAL H=4-EKPETCCAUMA L=(EPPOOPTERA F==ISH 0=OTHER

Sale SEGISCIANCE EVIDENCE CODES 'EVI: 39660146 3190 - POSSIALE: SH = SUITABLE HABITAT

BREEOLING AIRD - PROEABLE: T = TERAILCARY A = ANDETY BEHAVIOUR

D = OISPLAY N = HFST BUADWG

FY = 7.ED3ED YOLMG FS = FOOD:FAECA, SACH P = PAIR V = V S TNG NEST

ku = USED KEST ky = YOUKG

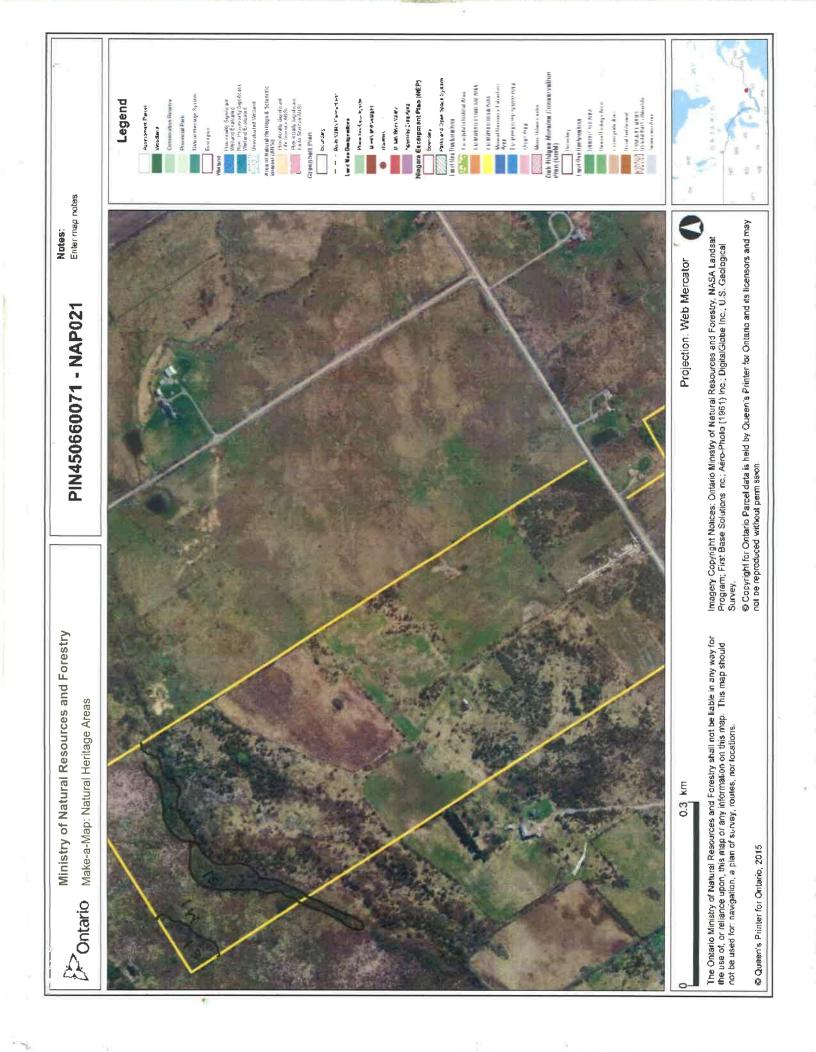
VO = VOCRUZATICA KO = HOUSENEN FE = FELDING EVIDENCE

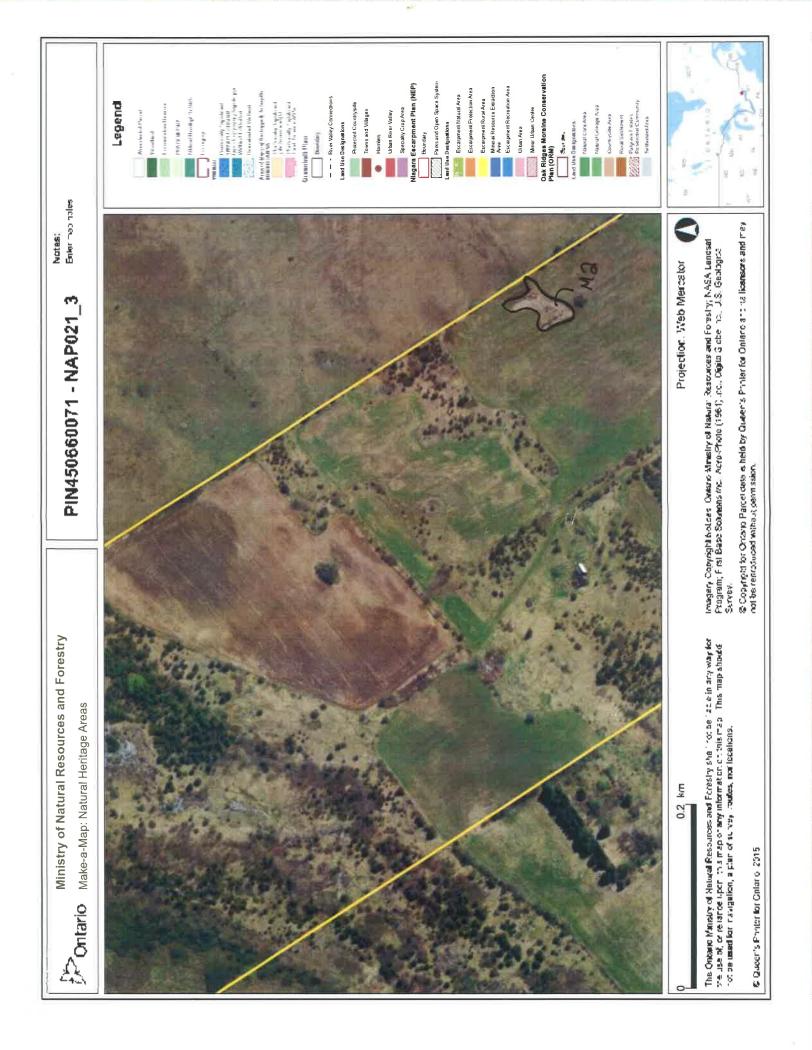
CA = CARCASS FY = E069 CS roland SC = SCA⁺

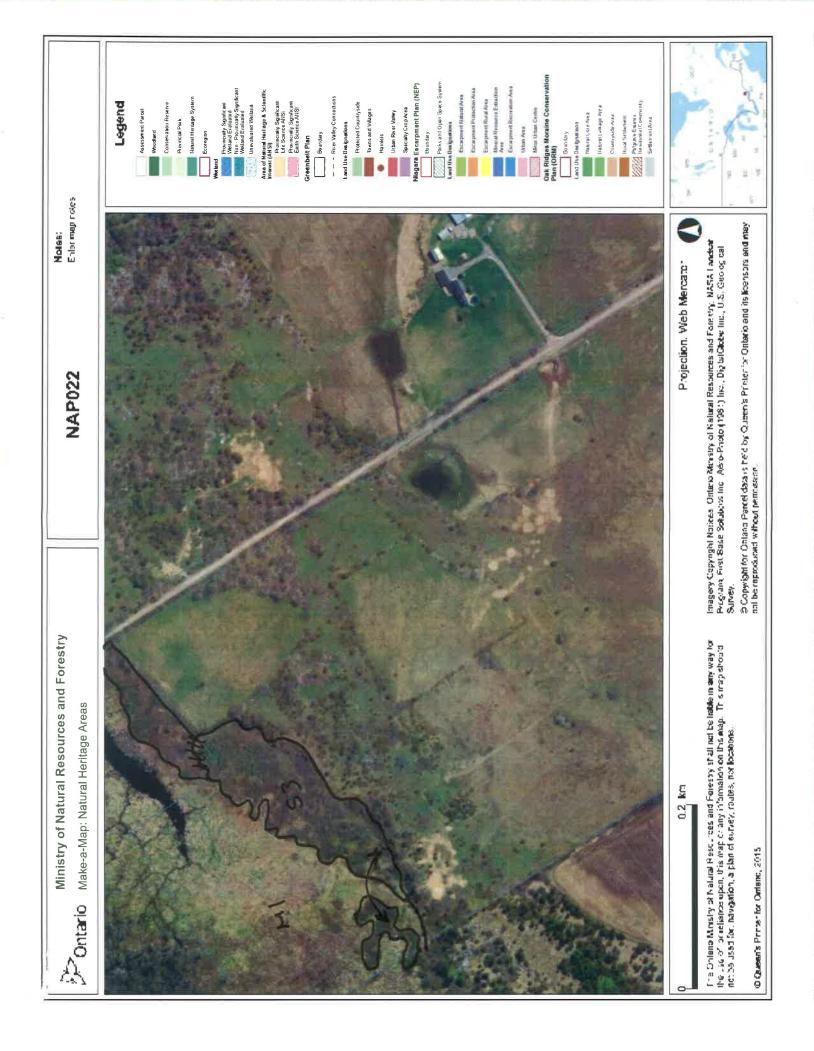
Page of

OTHER WILDLIFE L'ALCE VCE: DBI = CESERVEO DPI = DEST ROTIVE PARTS TA = TRADAS SI = GTHER SIGNS (speedby)

BREEDING BRD - CONFIRMED: DD = DNSTRACTICH NE = 2003 AE = NEST CNTRY







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LTM2:		TMN				STAND		DATE:					
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POLYGON DESCRIPTION		Ì	- F			TREE TALLY BY SPECIES	CIES:						8
SYSTEM SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY P	PLANT FORM 0	COMMUNITY		PRISM FACTOR	L N						
G TERREST VIAL GORGANIC	G LACUSTRINE G RIVERINE	GNATURAL G		POVD		SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5 TO	TOTAL	REL. AVG
G PARENT MIN	G BOTIDVLAND G TERRACE G VALLEY SLIDE			2 RIVER B STREAM MAARSH									
AC DIC BEDRK	G TABLELANS G ROLL, UPLAND			FEN									Π
2.5	G TALUS G CREVICE / CAVE	COVER	G MIXED	BARREN								-	
	G ALVAR G ROCKLAND	Goven	500	PRAIRIE THICKET SAVANNAH								┢	Τ
O SHALLOW WATER O SURFICIAL DEP G BEOROCK	G BLUFF	G TREED	000	G WOODLAND G FOREST G PLANTATION									
STAND DESCRIPTION													
LAYER HT CVR	SPECIES IN OR (>> MUCH GREATE	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN: > GREATER THAN; = ABOUT EQUAL TO)	G DOMINANCE (UP 8 THAN; = ABOUT	to 4 sp) EQUAL TO]									
1 CANOPY													
2 SUB-CANOPY													
3 UNDERSTOREY 3 3	Salix So							T	t	t	╏	╎	T
4 GRD.LAYER 5 3	1 20					TOTAL							100
	2 = 10+HT+25 m 3 = 2+HT+10 m 4 = 1+HT+2 m	alæteHTs2mi 5⇔0,5eHTstm	0 = 0	2 13.0.5 m 7 ≈ HY <0.2 m</td <td></td> <td>BASAL AREA (BA)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		BASAL AREA (BA)							
CVR CODES D= NOME 1= 6% < CVR < 10%	VR < 10% 2= 10 < CVR · 25%	· 25% 3= 25 < CVR < 60%	0% 4= CVR > 60%			DEAD							
STAND COMPOSITION:			<u>a</u>	BA:		NOLISOBIO UNVIS]
SIZE CLASS ANALYSIS:	× 10	- 10-24	N 25-50	N > 50									Γ
STANDING SNAGS:	< 10	10-24	25-50	> 50									
DEADFALL/LOGS:	< 10	10-24	25-50	20 4		COMMUNITY PROFILE DIAGRAM	DIAGRAM						
ABUNDANCE CODES: N = NONE	R = RARE 0=1	1	A = ABLNDANT			C		41	UFT2	5	Ź	1	
COMM. AGE : PIONEER	WOUNG	MID-AGE	MATURE					7		I		Ċ	1
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SUL ANALYSIS	DEPTH TO MOTTI ES / GI EV								7				
MOISTURE:	DEPTH OF ORGANICS:	<u>ת</u>		(cm)		Ĩ							
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	ROCK:		(cm)									
COMMUNITY CLASSIFICATION:	:NO		ELC	ELC CODE		Î							
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ECOSITE: WILL	WILLOW O'SAME	There has	44.SW702	72 ~		11							
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EXTENT OF LOGGING	NOVE	100%	WIDESPEED.	EXTENSIVE		
SUCKREDSHOPERATORS	ACHE	, GHT	abce une	HEALTH		
SUTENT OF OPERATIONS	NCHE	LÓCAL	WDESPREAD	EFENSINE		
GAPS IN FOREST CANOPY	NCHE C	SINAL	INTERMEDIATE	LARGE		
EXTENT OF GAPS	NOME	Tepp1	W/DESPRENC	Est Extent		
LIVESTOCK (GRAZING)	ACA E	1,647	ADCESN'E	HEAVY		
EXTENT OF LIVESTOCK	NON.	LCON.	WOESPERAD	Break		
ALEN SPECES	Achie Achie	2005CHD.	TAKONISA	DOMINANT		
EXTENT OF ALLEN SPECIES	NONE	LOCAL	MOESPEEKC	EXTENSIVE		
PLANTING (PLANTATION)	4045	DCCASICAL	LANDARY &	DODERAL		
EXTENT OF PLANTING	HONE	.ccu.	WSESPREAD	EXTENSIVE		
TRACKS AND TRAILS	3MCH	FAINT TRA LS	WELL NARKED	TRACKS OR		
EXTENT OF TRACKSFRALS	NONE	LCC+L	MCES PEAL	ELIENSYE		
DUMPING (RUBBISH)	NOVE	, 490	UCCERNTE	HEAVY		
EXTENT OF DUMPING	NONE	1000L	WIDESPREAD	EXTENSIVE		
EARTH DISPLACEMENT	NON	.~%1	NOCERATE	HEAVY		
EXTERT OF DISPLACEMENT	NONE	LOCAL	ADESPERT	EXTENSIVE		
RECREATIONAL USE	NONE	1-6/1	MODERATE	НЕАУҮ		
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	31243113		
NOISE	NONE	SLIGHT	MODERATE	9-1245		
EXTENT OF NOISE	HCME	LCC4L	WEESHERD	Entensine		
DISEASE/DEATH OF TREES	NONE	1K-T	MODERATE	HEAVY		X
EXTENT OF DISEASE / DEATH	NONE	100T	WICESPREAD.	EXTENSIVE		
WIND THROW (BLOW DOWN)	NONE	1-01	INCOGRATE	HEAVY		
EXTENT OF WIND THROW	NONE	1004	mD65FAEA5	EXTENSIVE		
BROWSE (4.5, DEBRI	NONE	LK5-1	WOOGRATIES	HEAVY		
EXTENT OF BROWSE	NONE	10CAL	CASPREAD	EXTENSIVE		
BEAVER ACTWITY	NONE	1:01	INCOGRATE	HEANY		
EXTERT OF SEAVER	NOR	1001	W DESPRING	EXTENSIVE		
FLOODING (pools & puddling)	NONE	T=2L	MODERATE	HEAVY		
EXTENT OF FLOODING	NONE	100M	CT394530.44	(EXTENSIVE)		
FRE	NONE	110-11	MOBRATE	HEART		
EXTENT OF FIRE	N/ME	1001	CYBBODIA	SCIENSINE		
ICE DAMAGE	N/X	144	MODERATE	HENN		
EXTENT OF CE DAMAGE	NONE	LOCAL	CESPREN	ExTENSINE		
DIHER	NONE	CI,	3400ERATE	HEIV.		
EXTENT	NONE	-00M	PLESP1EAD	ECTANCE		
				† INTENSITY × EXTENT	ENT = SCORE	

C Ī	SITE: NAPO211022
	POLYGON: SI-53/MI
	DATE: 1)/0/ L1 :
WILDLIFE	surveyor(s); ' Jw H
	START TIME: END TIME:
TEMP (°C): 30	CLOUD (10th): 20 WIND: 2-3 PRECIPITATION: LOVE.
CONDITIONS:	

87 _____

POTENTIAL WILDLIFE HABITAT:

VERMAL POOLS	SNAGS	
HIBERNACULA	FALLEN LOGS	068

SPECIES LIST.

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FAUNAL TYPE CODES (TY): B = BIRD M = MAMMAL M = HERPETOFAUNA L = LEPUDOPTERA F = FISH 0 = 0THER EVIDENCE CODES (EV); BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT

SM = SINGING MALE

BREEDING BIRD - PROBABLE: T = TERRITORY A = ANXIETY BEHAVIOUR

D = DISPLAY N = NEST BUILDING NU = USED NEST NY = YOUNG

FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK

P = PAIR V = VISITING NEST

CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE BREEDING BIRD - CONFIRMED: DD = DISTRACTION NE = EGGS AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE: 08 - OBSERVED DP = DISTINCTIVE PARTS TK = TRACKS SI = OTHER SIGNS (specify)

Construction Difference Diffe	GDN: EYOR(S): TALLY 3 TALLY 5 TOTAL TALLY 6 TALLY 6 TOTAL TALLY 6 TALLY 6 TOTAL TALLY 7 TALLY 6 TOTAL	100 100
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M < 10 M 16 - 24 M 25 - 50 M > 50 M < 13		
NAGS: A <10 A 10 24 A 25 50 A >50 LOGS: A <10		
YSIS: YSIS: DEPTH TO MOTTLES / GLEY DEPTH OF ORGANICS: DUS / VARIABLE DEPTH TO BEDROCK:		
ILYSIS: DEPTH TO MOTTLES / GLEY g = G= DEPTH OF ORGANICS: EOUS / VARIABLE DEPTH TO BEDROCK:		
EOUS / VARIABLE DEPTH TO BEDROCK:		
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ALCHRITY OF LOGGING	N-CHART	PUEL (4000)	261 661140	CHANE ESTIMA	
EXTERT OF LOGGING	NONE	LOCAL	WILE SPICE AU	EXTENS VS	
SUGAR BUSH OPERATIONS	NONE	-164°	UCDER4*2	HEATY	
EXTENT OF OPERATIONS	4:04E	LOCAL	WIDEBPREAD	ÉXTENS VE	
GRAS NEOREST CANDRY	HONE	SHALL	INTERNEDIMTE	LARSE	
EXTENT OF GAPS	KCNE.	LOCAL	WIDEELC . 4D	EXTENSIVE	
WESTOCK (GRUZING)	HOME	THOM	VOTEBATE	IEAN	
EXTENT OF LIVESTCCK	\$40MG	I GIBN	WEESTAEND	EXTENSIVE	
ALEN SPECES	\$ ONE	DOUR\$20Hor	MEMORY	DOM YANT	
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PLANT NG (FLANTATION)	NUSL	DOCHSINERS,	-MPCMDAP	JUNE NO.	
ECTENT OF PLANT NO	3h CH	ECCAC	MDESPREAD	EX164.17E	
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EXTENT OF TRACHSTRATS	NOHE	EGAL	MDESPREAD	ex- eks ve	
CUMPISSI PLEADING	300	THG	MODERATE	1-EAC	
ENTERT OF OUMPING	SHOP	100	Indespaced.	Entensive	
EARTH DISPLACEMENT	NONE	LIGHT	NOCENTE	HENCY	
EXTENTIOF O SPLACEMENT	NDSF	1 DRAM	WIDF249E40	EXTOMSIVE	
RECREATIONAL USE	NONE	UISHT	MOCENTE	HEALT	
EXTENT CF RECR. USE	NCHE	LDGAL	VIDESPIRAD	EXTENSIVE	
N DISE	KONE	SLIGHT	AND REALTE	INTENSE	
EXTERT OF MCISE	NCHE	LOCAL	WIDERFREAD	EXTENSIVE	
DISEASEDEATH OF TREES	DROAT	TF01	HOCESAFE	HEANT	
EXTERT OF DISEASE LOEATH	PRC VE	LCCAL	WJESPREAD	EXTENSIVE	
WAC THROM (BLOW DOWN)	2404	1404	MODERATE	HEAR	
EXTERT OF IMMD THROW	Ψ.Υ	LOEM	WOUSPREAD	EXTENSIVE	
830WS5 (e.g. D563)	NOVE	1520	MODERATE	Y-WEH	
EXTERT OF BROWSE	ACKE	LECAL	MOESPREND	ENTENSME	
BEAKER ACTIVITY	Second	1 kali i	NEUCHAILE	11 a KWY	
EXTENT OF BEAVER.	NCHE	LECOL	MICHAPPERAD	EXIENBINE	
FLOODING (seeds & pudding)	NONE	Ì	HODERATE	(A)	
EXTERT OF FLOODING	NDM	(ucent)	W.0695600	(Alterno	
FIRE	3MOH	LIGNT	HODERATE	PEAKY	
EATENT OF FIRE	KONE	LOCAL	WE DEEPREAD	EXTENSIVE	
CE DANAGE	NONE	1 KIAT	MORFAATE	HEALT	
EXTERT OF ICE DAMAGE	NONE	104.81	Crestsadw	ENTENSINE	
CYHER REPRESENCE OF STREET	NONE	110211	HODCRAYE	1-CALTY	

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	POLYGON	ew			
	DARES	10/01	0/10		
WILDLIFE	SURVEYOR(S)	2	まつ		
	START TIME:		END TIME:		
TEVP I'CI: 30	cloud (tork) $\mathcal{R}_{\mathcal{C}}$	WIND: 3	CLOUD (304:20 WIND: 3 PREC. PITATION: 144	here.	
CONDITICHS:					

POTENTIAL WILDLIFE HABITAT:

	VERVAL POOLS	Shugs
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FAUNAL TYPE CODES (TYP: B = BIRD N = WANMAL N = HERPETOFALVA L= LEPIDOPTERA F= FISH 0 = 07HER

SM = SHORNS HALE EVIDENCE CODES IEVIS BREEDING BIRD - POSSIBLE: SH = SULTABLE AABITAT

BREENVIG BRD - PROGABLE: T = TERRTCRY A = A4XETY 3EHAYYOUR

BREEDING BRD - COVFRMED: DD = DISTRACTION NE = EGGS AE = NEST ENTRY

FY = FLEDGED YOJNG FS = FCOD/FAECAL SACK

NU = USED NEST NY = YOUNG

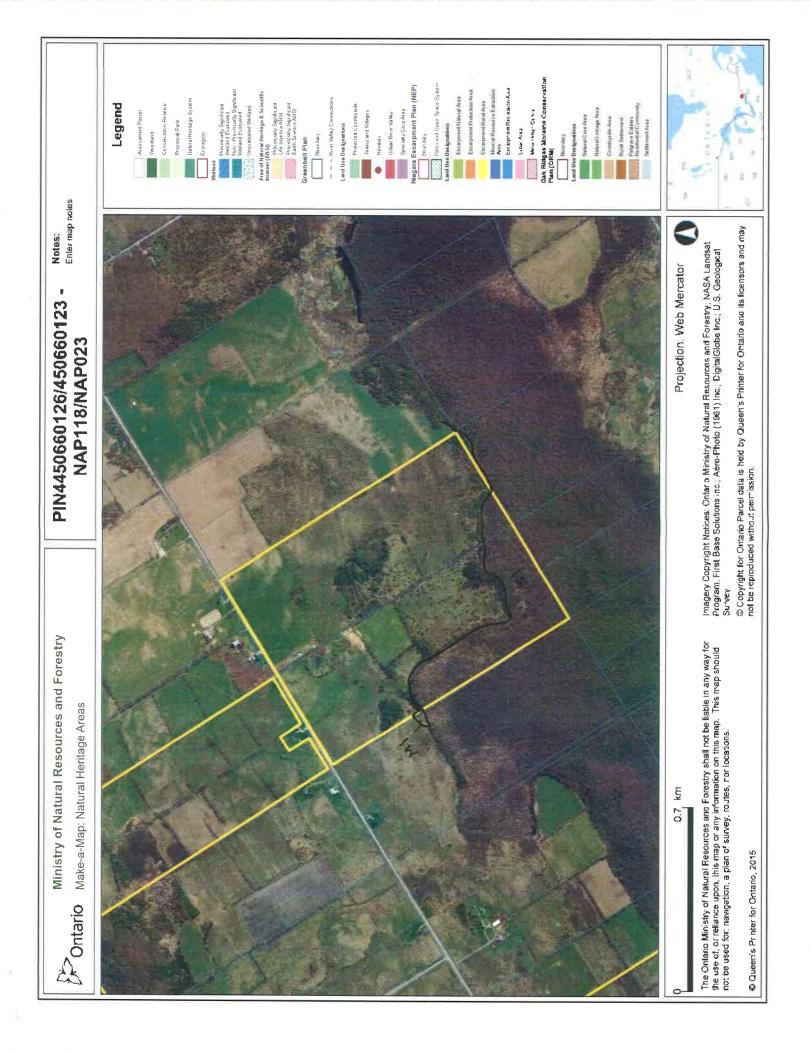
P = PAUR V = VISTING NEST

) = DISPLAY N = HEST BUILDING

CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

VO = VOCALIZATIOS NO = NOUSEDES PE = PEEDING EVICENCE

OTHER MILDUFE EVIDENCE: CR = 035ERVED DP = 0 STNCTINE PARTS THE = THACKS SI = 0THER SIGNS (speefly)



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Scription Image: state s	Scalario Handle Community Jussistaria Foromania Jussistaria Community Community Enternis Construction Enternis Construction <th>BN UTWZ:</th> <th>UTME:</th> <th>01/10/10</th> <th></th> <th>10:</th> <th></th> <th>STAND CHARACTERI</th> <th>STICS</th> <th>DATE: SURVEYOR(S</th> <th>5):</th> <th></th> <th></th> <th></th> <th></th>	BN UTWZ:	UTME:	01/10/10		10:		STAND CHARACTERI	STICS	DATE: SURVEYOR(S	5):				
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EXTENT OF DUMPING	NONE	TOOM	W CESPREAD	017601E	
EARTH DISPLACEMENT	NONE	1-91	N-005Rote	HEAVY	
EXTENT OF DISPLACEMENT	S.W.S	1997	WIDESPREAD	EXTENSINE	
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EXTENT OF WIND THROW	NCHE	1004.	phoeses	EXTENSIVE	
BROWSE (e.g. DEER)	HONE	Понг	PUEDOTE	HEAVY	
EXTENT OF BROWSE	NCOR	1001	WIDESPREAD	EXTENSIVE	
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_	WILDLIFE	SURVEYOR(S):	5.~F	
		START TIME:	END TIME:	
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8	CONDITIONS:			5 5 5
6	POTENTIAL WILDLIFE HABITAT:	HABITAT:	in/s chart survey	Sunday
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FAUNALTYPE CODES (TY): B=BIRD M = MAMMAL H=HERPETOFAUNA L=LEPIDOPTERA F=FISH 0=0THER

SM = SINGING MALE EVIDENCE CODES (EV): BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT

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BREEDING BIRD - PROBABLE: T = TERRITORY A = ANXIETY BEHAVIOUR

BREEDING BIRD - CONFIRMED: DD = DISTRACTION NE = EGGS AE = NEST ENTRY

01 HER WILDLIFE EVIDENCE: 08 = 065ERVED 07 = DISTINCTVE PARTS TK = TRACKS SI = 07THER SIGNS (spocfy)

VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE

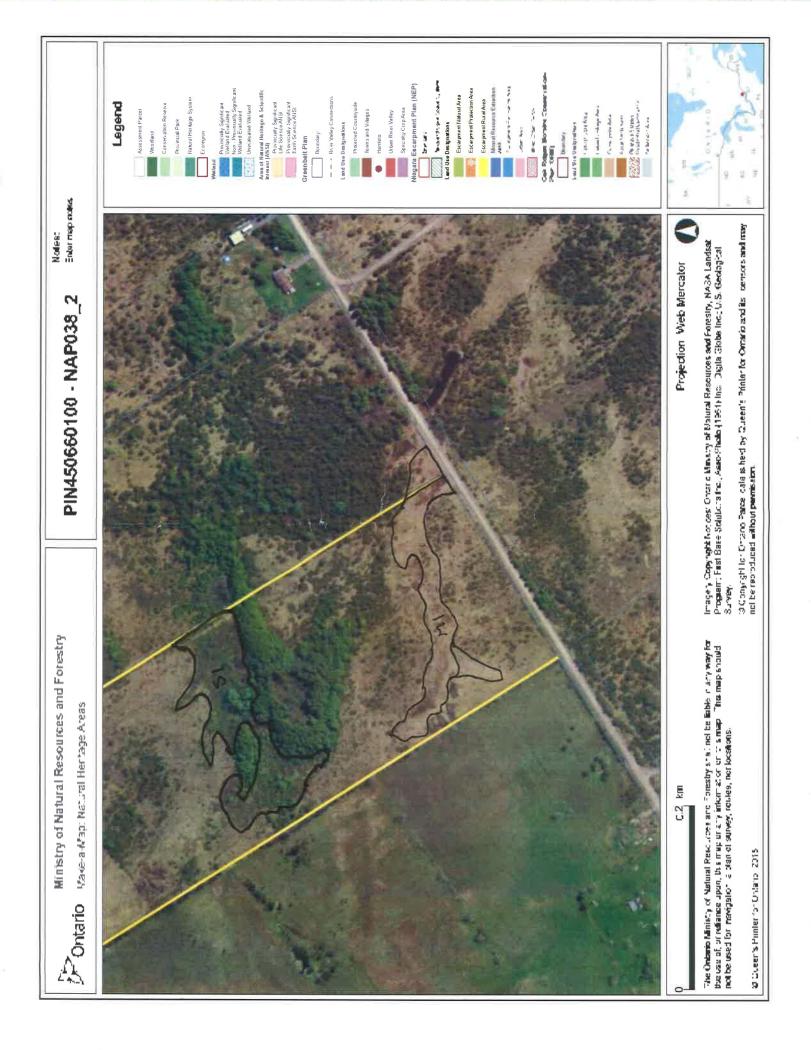
CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK

NU = USED NEST NY = YOUNG

P = PAIR V = VISITING NEST

D = DISPLAY N = NEST BUILDING



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ELC MANAGEMENT / DISTURBANCE DISTURBANCE / EXTENT T.ME SINCE LOGGING ATTENSITY OF LOGGING EXTENT OF LOGGING	POLYGON: DATE:				
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T. ME SINCE LOGGING INTENSITY OF LOGGING EXTENT OF LOGGING	•	t	2	£	SCORE 1
INTENSITY OF LOGGING EXTENT OF LOGGING	> 30 YRS	15 - JO YRS	5 - 15 YRS	0 - 5 YEARS	
EXTENT OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAVETER LIMIT	
	MONE	LOCAL	WICESFREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	VODERATE	недуү	
EXTENT OF OPERATIONS	SNDN	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SWALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	3NCN	LINGHT	MOCERAIE	неакү	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	AGUNDANT	DOM.NANT	
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOWINANT	
EXTENT OF PLANTING	NCNE	LOCA.	VC.DESPREAD	EXTENSIVE	
*RACKS AND TRAILS	ANCN	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WICESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	НЕАЧҮ	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LICHT	KODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NCME	LOCAL	VADESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LDCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NDNE	LIGHT	NODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NOVE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGMT	MODERATE	HEAVY	
EXTENT OF BROWSE	NDNE	1000	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	PONE	LIGHT	MODERATE	нелчү	
EXTENT OF BEAVER	JNCN	LOCA.	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	НЕАVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXIENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	NODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	NODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

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	POLYGON:	S1 12	11		
	DATE:	1410	6/16		
WILDLIFE	SURVEYOR(S):	10	UH.		
	START TIME:		END TIME:		
TEMP (°C): 30	CLOUD (10th): 20	WIND: 2	CLOUD (10th): 20 WIND: 2 PRECIPITATION: VOC	nac	
CONDITIONS:					
POTENTIAL WILDLIFE HABITAT-	E HARITAT.				

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	SNAGS
	HIBERNACULA	FALLEN LOGS
5	Soroico	

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SPECIES LIST:	SP. CODE										
SPE	≿				_						

FAUNAL TYPE CODES (TY): B=BIRD M = MAMMAL M=HERPETOFAUNA L=LEPIDOPTERA F=FISH 0=0THER

EVIDENCE CODES (EV); BREEDING BIRD - POSSIBLE: SH < SUITABLE HABITAT

SM = SINGING MALE

BREEDING BIRD - PROBABLE: 7 = TERRITORY A = ANXIETY BEHAVIOUR

NU = USED NEST NY = YOUNG

FY = FLEDGED YOUNG FS • FOOD/FAECAL SACK

P = PAIR V = VISITING NEST

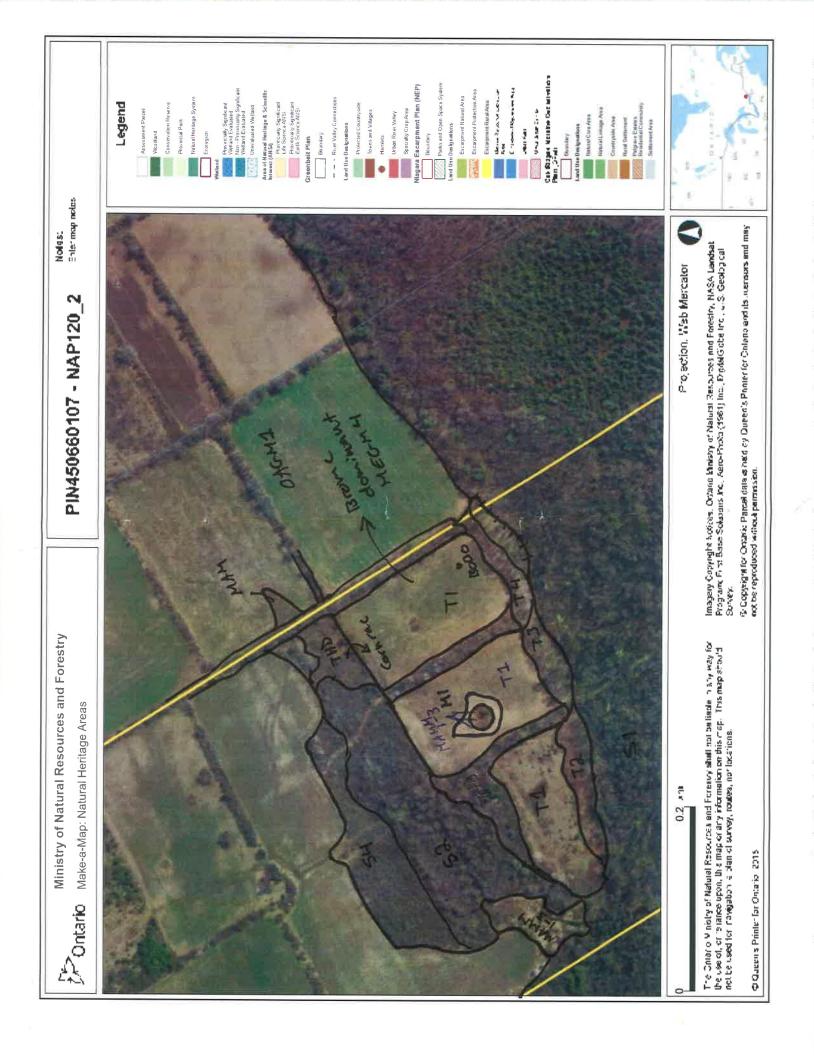
D = DISPLAY N = NEST BUILDING

CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE

BREEDING BIRD - CONFIRMED: DD = UISTRACTION RE = EGGS AE = NEST ENTRY OTHER WILDLIFE EVIDENCE: DB = OBSERVED DP = DISTRUCTIVE PARTS TK = TRACKS SI = OTHER SIGNS (specify)

Page ... of ...



SURVEYOR(S); DATE: TIME start :	ELC	BLE: Bru YGAN:
Finish Finish	CH F L S	DATE:
CLASSIFICATION UTMZ: UTME: LTMM:	CHARACTERISTICS	SURVEYOR(S):
POLYGON DESCRIPTION SYSTEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY	TREE TALLY BY SPECIES: DOISM EALTOD	
L G ORGANE G JOLE NATURAL G PLANKTCK		TALIVA TALIVE TATAL
CA REAL SOL. G STIVENING G REAL SOL. G SOLDALAND CLUITURAL G FLOTINGLUD. G PARENTIMP G FERRED		IALLT 3 IALLT 4 ALLT 3
PARKE BEDRK G GLIFF CARE BEDRK G GENCED CAVE CARE BEDRK G GENCED CAVE		
GPEN WATER GOPEN		
STAND DESCRIPTION:		
LAYER HT CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUALTO)		
1 CANOPY O O W/A		
2 SUB-CANOPY 3 1 Frex per >> QUERTUD=		
UNDERSTOREY 3 3 COLVINC	TOTAL	
4 GRO.LAYER 4 4 XV, ANJO 50. >> DRUCKX> PILLES IL	BASAL AREA (BA)	
CVR CODES 0= NOAE 1= 6% < CVR 10% 2= :0 < CVR 25% 1× 55 < CV8 10% 4= CVR > 60% 4= CVR > 60%	DEAD	
STAND COMPOSITION: BA:		
SIZE CLASS ANALYSIS: < 10 10 - 24 10 - 50 1 > 50	STAND COMPOSITION:	
STANDING SNAGS: <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a><td></td><td></td>		
< 10 10-24	COMMUNITY PROFILE DIAGRAM	and the back of
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT	I F Bach Mare	Flach three fields, sandwiched norman
COMM. AGE : VPIONEER VOUNG MID-AGE MATURE OLD GROWTH	E Swamp.	ivamp.
ALYSIS:		I with a abardont goldented to
LFS DEPTH TO MOTTLES / GLEY $g = \frac{2}{3}\frac{2}{3}\frac{3}{3}$ $g = \frac{2}{3}\frac{3}{3}\frac{3}{3}$		A twink of a contract of the SIM
HOLDEREDUS VARIABLE DEPTH TO BEDROCK: (CIII)	E gry asi	ward with rows of a
TION: ELC CODE	~ ~ ~ ~ ~ - Z m	high i i he less
COMMUNITY CLASS:	E - Centre F	sold is similar but will be build
COMMUNITY SERIES:	el married	downood i contains small MAMAINS menon
ECOSITE:		it is wind dominanted
VEGETATION TYPE: Fresh-moulst fresh Merchan/ MEFNY/ White Sonce Plantation in TALMA	Notas: Mcc. M. L. M. L. M. L.	Last new 1) grammer hand house in
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e regular adminis	Same	- highest paint in middles sloping
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stands in state		100 Construction of the second se

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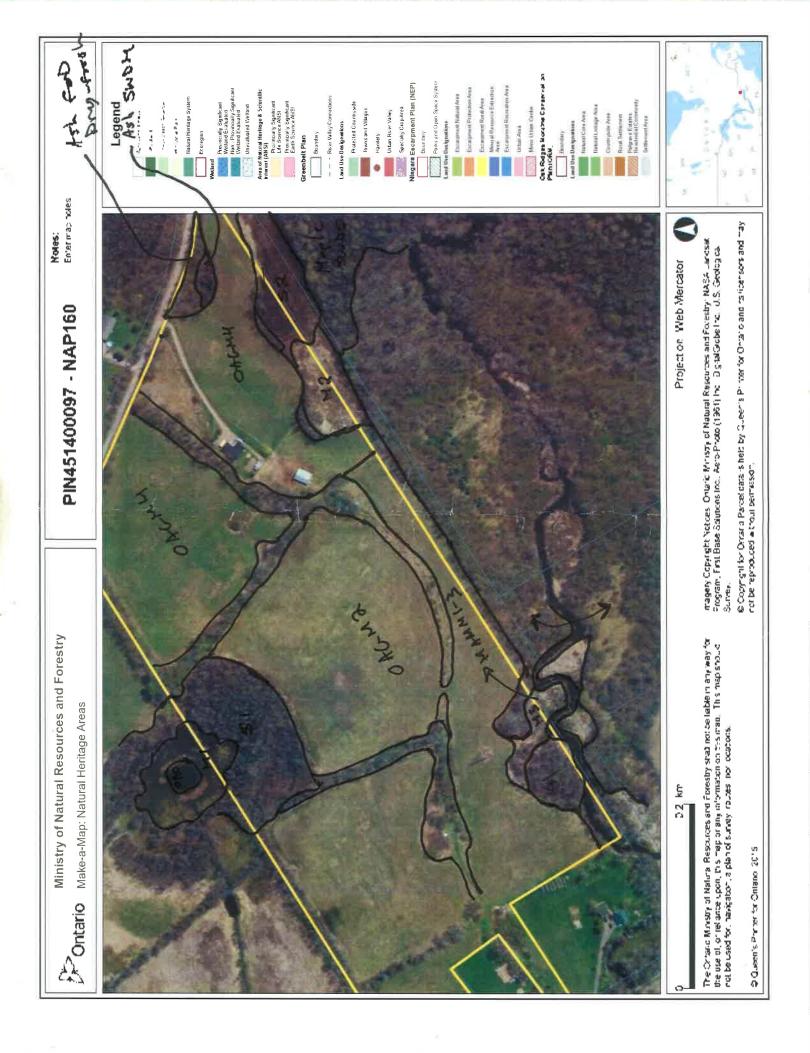
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				-		Har							NOTES																	0 = 0THER					test		FY = FLEDGED YOUNG F5 = FOOD/FAECAL SACK		47	FY = EGGS OR YOUNG
				1.1	17:1	ino.							EV	-	-	_				_		_			_	-				F = FISH				P = PAIR	SITING		-OOD/F4		CARCAS	EGGS OF
0		1. Lolc	Ŧ	ND TIME:	END TIME:	PRECIPITATION:			SNAGS	FALLEN LOGS			SP. CODE	4300-10																L = LEPIDOPTERA F = FISH				P = P.	μ= γ	i	1 = 15 1 = 15 1 = 15			
NAPIZO	+	<u>_</u>	NO			3							¥	;							T			1								AALE			SING		H-		TION	N
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	1	WILDLIFE	WILDLIFE		1	1°C): ZS	CONDITIONS:	POTENTIAL WILDLIFE HABITAT:	VERNAL POOLS	HIBERNACULA		SPECIES LIST:	SP. CODE																	FAUNAL TYPE CODES (TY): B = BIRD M = MAMMAL	EVIDENCE CODES (EV):	EDING BIRD - POSSIBLE: SH = SUITABLE HABITAT	RRFFDING RIPD . DD/04/01 C.	T = TERRITORY	E ANXIETY BEHAV	BREEDING BIRD · CONFIRMED:	DD = DISTRACTION NE = EGGS	AE = NEST ENTRY	OTHER WILDLIFE EVIDENCE: OB = OBSERVED	DP = DISTINCTIVE PARTS TK = TRACKS
						TEMP (°C):	COND	POTE	F			SPECI	7		t	1					1		T	t	1	t		+		FAUN2	EVIDE	BREEDI	RRFFDI		×.	BREEDI	2 W	A A	1 B B B B	9 X
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				3 SCORE†	41.11				EXTENSIVE	1 ANKIF	EXTENSIVE	HEAVY	rat riveu	DOMINANT	EXTENSIVE	DOMINANT	1/111/1111	1144.11H 111	5435-441/PF	- 4/4 11	EXTENSIVE	HEAVY	HEAVY	PX + F-6441VJ	1418 L L L L L L L L L L L L L L L L L L L	EXTENSIVE	4/V 411	r Arrhwiyi	EXTENSIVE	HEAVY	FAIFURIVI	неачү	LAILZEICE	ITEAVY	P. N.I. PANVAL	HEAVY	P.A.T.PURINE	HEAVY	1.A.1.MIVE	HI.AVY
				3	┢			-			WIDPAHHEALI EXTENSIVE		WIDESPREAD FAITFUALU	A I I I I I I I A I I I I A I I I I A I I I I A I I I I A I I I A I I I A I I I A I I A I	WHATHING EXTENSIVE		H		WIIII 11/11/ 4/1 WATE 4/1/AL		WILL HI'LI'RAIL EXTENSIVE		HEAVY	\square				WGP-IPTHEAD P.G.P.M.IVI	-		Wilth Girler Aiz Patersmins	MINIFRAIH HEAVY	With nime Au an annur		Witchmicht Alt P. R.S. FRANKE	MIIIILIIAII HEAVY	Withenstriker Practicular	MUNIFIALF HEAVY	Writichtricku i Allinuur	HINNIN HIVA
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INT B. POLYSON	PULTGUN: DATE:	VALE: SURVEYOR(S):		1 2 3	n-15 YRS II.A VIIA	FUEL WOOD SEI FOTIME		LOCAL WITH HIMEND	111/A WIDESPREAD	SMALL INFERMINIAN	WIDPhitteri	MILLERALL	WIDESPREAD	14444	Winnersh	AFTINIZAR	WILLIAM AND	WELL WARKED	WILL D	LIGHT M(M) WM II	I THEN WITH NUMERALI EXTENSIV	WITHTALL HEAVY	LIBHT MINITUAL	WIDTH AD	MINH RAIE	WILLIAN EXTENSIV	N 1 VI 111 IV	WKP4014240	(WHATHAN IV)	MULTINALL	WIIthterterAlz	+ (Vad d: 1: / W)	Wild numerative and and and	41117711	WHITPHI AL	((Vnnthim	WittensterAtz	1 × 1 × 1 × 1 × 1	Writesheet Au	ALL LALL

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ELC STAND CHARACTERISTICS	TREE TALLY BY SPECIES: PRISM FACTOR	SPECIES	TOTAL BASAL ARFA (BA)	DEAD DEAD	COMMUNITY PROFILE DIAGRAM COMMUNITY PROFILE DIAGRAM X HINCK Swamp ComPlex - weather Swamp	here a	S all 1
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th Swamp	COMMUNITY	G LAKE G CARE RAVE RAVE SWARSH MARSH MARSH MARSH MARSH MARSH MARSH C C C C C C C C C C C C C C C C C C C	Ecular To)		 ↓ > S3 ↓ > S3 01D 01D 01D 	G= (cm) (cm)	5-14 2-147
POLYGON: HIME TIME: start finish MN:	PLANT FORM	G PLANKTON G SUBARERGED G SUBARERGED G CARAINAL IVO G CARAINAL IVO G CARAINALO D BRYOPHYTE C CONFECTUOUUS C CONFECTUOUUS G MAKE	B DOMINANCE (UP to 4 R THAN: = ABOUT EQU PC M > U muane	60% 4= CVR > 50%	25-50 25-50 A= ABUNDANT AATURE	EFC	SwD SwD MANU
O ATE/U/IL	HISTORY	Guarurat G currurat C currurat C cover G circute G circute	SPECIES IN ORDER OF DECREASING DOMINANCE (UD SPECIES IN ORDER OF DECREASING DOMINANCE (UD A CALFTE >> (100 > U) MUJAN A CALSTE > PATING CALSTE > PATING 3 ONOT SEV = CALE (UDU > ducture	25% 3=25 < CVR - 60%	0 = 000 CCASIONAL A	LES / GLEY g NICS: OCK:	Organt C Swamp: Grass MAM
ist - NAP12 Humis P	TOPOGRAPHIC	G LACUSTRAA BRUERINE BRUERINE BRUERINE BRUERINE BRUERING G G CURT VIELE SLOPE CONTAUNS G BRUELIAND G BRUELIAND G BRUELIAND G BRUELIAND G BRUELIAND G BRUELIAND G BRUELIAND	SPECIES IN ORDER OF DECREA SPECIES IN ORDER OF DECREA ACCLAR >> (00 ACCLAR >> (01)) CONSTO > (01))	c% 2= 16 C/P	< 10 < 10 ZARE YOUNG	DEPTH TO MOTTLES / GL DEPTH OF ORGANICS: DEPTH TO BEDROCK: DN:	Maple
			M P N S N N N N N N N N N N N N N N N N N	a= cs < 0 mm - i co	2	μ	Swamp Scright
SITE: JUNNE	DESCRIPTION	G STGANSS G VIN FERT SOL G SARENT ANN G ACIE,C BEORK G GASIC BEDRK G CARB, BEDRK	HT C		Z	0h - 0w 5 / VARIABLE CLASSIFICA	
1 눈물물 1	POLYGON DI SYSTEM	G TERRESTRIAL C ADUATIC G ADUATIC SITE C CFEV WATER G CORVATER G SUBFICIAL DEP C EECRICON	STAND DESCRIPTION LAYER HT C LAYER HT C Canopy A SUB-Canopy A 3 UNDERSTOREY H 4 GRD. LAYER 5-7	CVR CODES B# NONE STAND COMPOSITION: SIZE CLASS ANALYSIS:	STANDING SNAGS: DEADFALL / LOGS: ABURDANCE CODES: COMM. AGE : COMM. AGE :	COMMUNITY CLASSFICATION: COMMUNITY CLASSFICATION: COMMUNITY CLASSFICATION:	COMMUNITY SERIES: ECOSITE: VEGETATION TYPE: INCLUSION COMPLEX Notes:

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L L		WILDLIFE			rc: 25	interest	CONCLUIONS:	POTENTIAL WILDLIFE HABITAT:	VERNAL PCOLS	нвениаслия		SPECIES LIST:	SP. CODE																	11 TOPE 00000	FAUNAL ITTE CUCES (TT): BABRD NAUNUAL	EVIDENCE CODES (EV):	BREEDING BIKU - POSSIBLE: SHIII SUITABLE - ABITAT	90560 VIS E 60 - 3006401 C	T = TERRITORY	A = ANXISTY BEHAVIOUR	BREEDANS BARD - CONVERIMED.	cu = UISTRACTION HE = EGGS	AE = hést êntry Ebiel of the outside	UTHER WILLIFE EVIDENCE: 08 = 035ERVED	DP = DASTINCTIVE PARTS * 4 = TRACKS	S = OTHER \$IGMS (specify)
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ELC SITE: 112 160 - LOVALSE POLYGON: 51/M1 SURVEYOR(S) DESCRIPTION A CLASSIFICATION UTWZ: UTME: ALANT 14 VYS DATE: ALANT 14 VYS DATE: ALANT 14 VYS DATE: ALANT 14 VYS DATE: ALANT 15 VY	POLYGON DESCRIPTION SYSTEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY FEATURE	GATURAL G LAMICON G CULTURAL G SL'EMERGED G CULTURAL G SL'EMERGED G CULTURAL G SL'EMERGED G GITCOPHYTE G GITCOPHYTE	G cutre G cutre G careve G careve A var G a var G a var G a va	STAND DESCRIPTION:	-	CANOPY	2 SUB-CANOPY 2 2 Frack kill		CODES: 1=>25 rr 2=10cHT	CVR CODES 0=NONE 1=0% < CVR : 10% 2=10 < CVR : 35% 3= 25 < CVR : 50% 4= CVR > 50%	BA	SIZE CLASS ANALYSIS: 21 < 10 0 10-24 0 25-50 1 > 50	<u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	UEADFALL / LOGS: / <13 / 10-24 √ 25-50 // >50 ABUNDANE CODES: N = NONE R = RARE 0 = OCCASIONAL A = ABUNDANT	COMM. AGE PIONEER YOUNG M. D. AGE MATURE OLD GROWTH	ALYSIS.	TEXTURE: 5, 6, DEPTH TO MOTTLES/GLÉY g = 18 G = 18 MOISTURE: 1, DEPTH OF ORGANICS: 30 (cm)	OUS / VARIABLE DEPTH TO BEDROCK: 9499	COMMUNITY CLASSIFICATION: ELC CODE	COMMUNITY CLASS:	COMMUNITY SERIES:	ECOSITE:	VEGETATION TYPE: Black Ash Annal SW2M2-1 51	1 [1583 60	COMPLEX Militari Fundim Marsh

ELC SITE: UTP/160 PLANT SPECIES SPECIES ST/M I DATE: DUC IS, 2016 LIST SURVEYOR(S): JUL H LIST SURVEYOR(S): JUL H COTES: 1=24037 1=25046;3PE1_AFER		120cm decy based on water 13; 55cm clear to edse.
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FAUMAL TYPE CODES (TTQ: PEBRIP N. #MANNAL MERREROFAUNAL LELEPIDOPTERA, FREISH DE D'HER

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VO = VOCALIZANOM HO = HOUSEREN FE = FEEDVIG EMDENCE

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FY = FLC05ED Y0J96 FS = F060,F450,41,6404

P = PAIR V = VISTUIG 4EST

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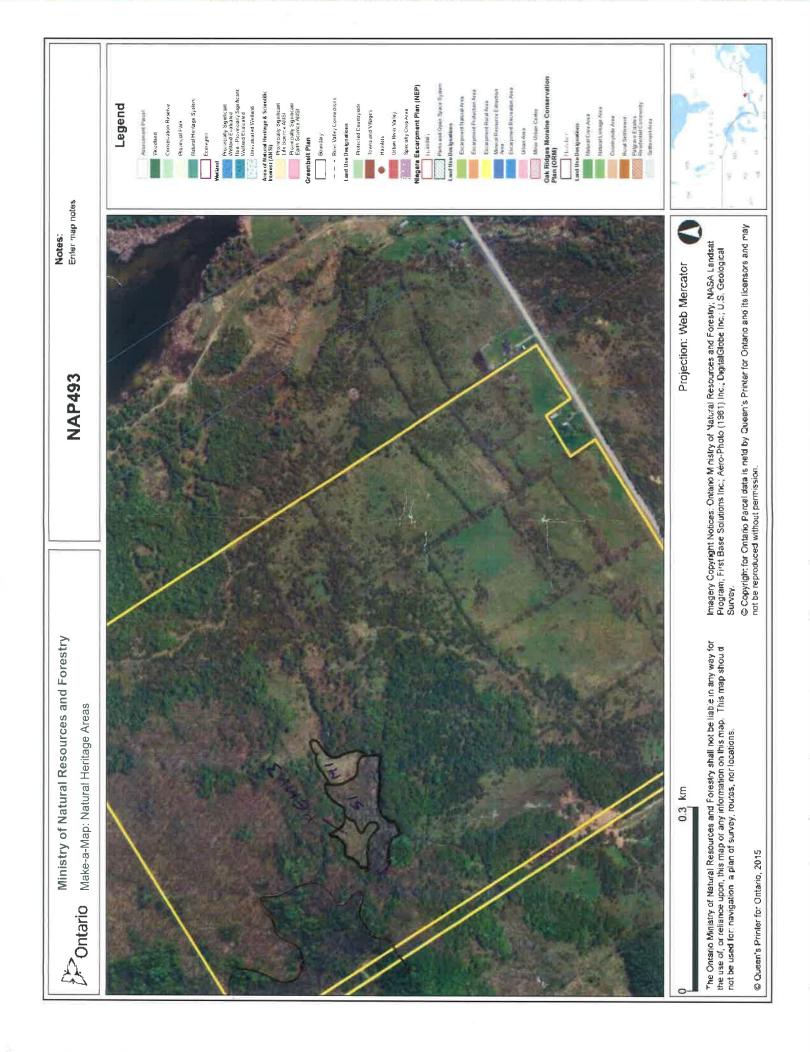
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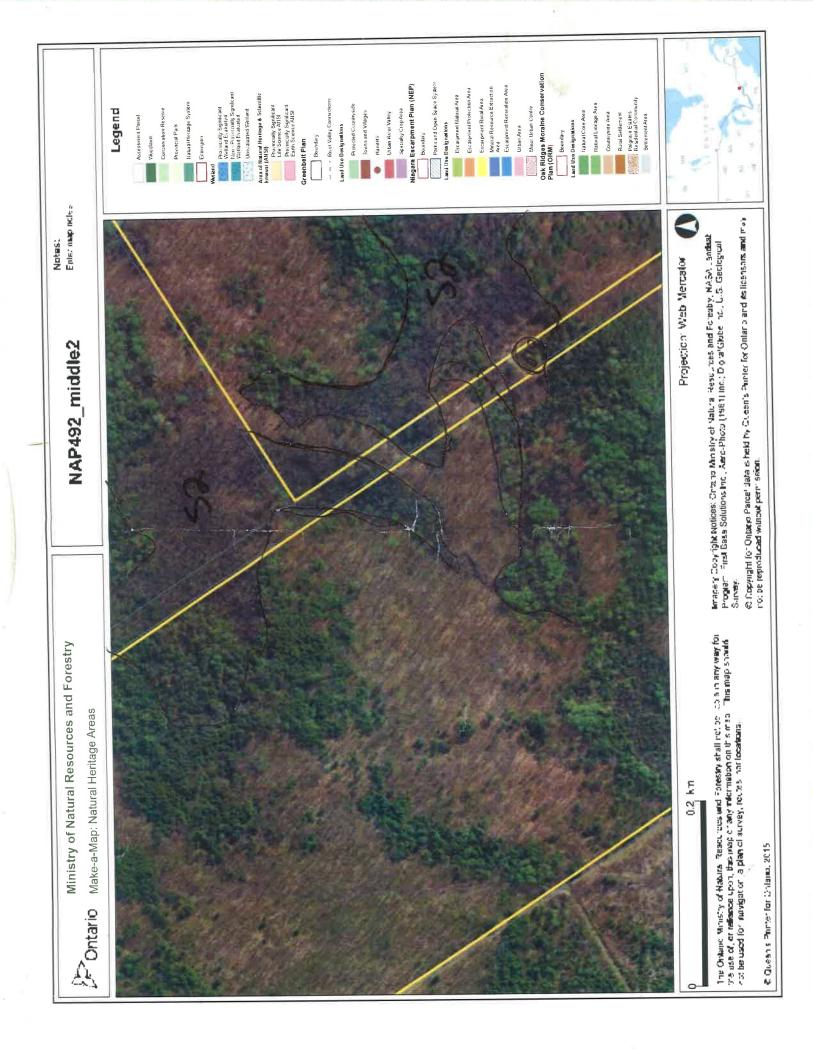
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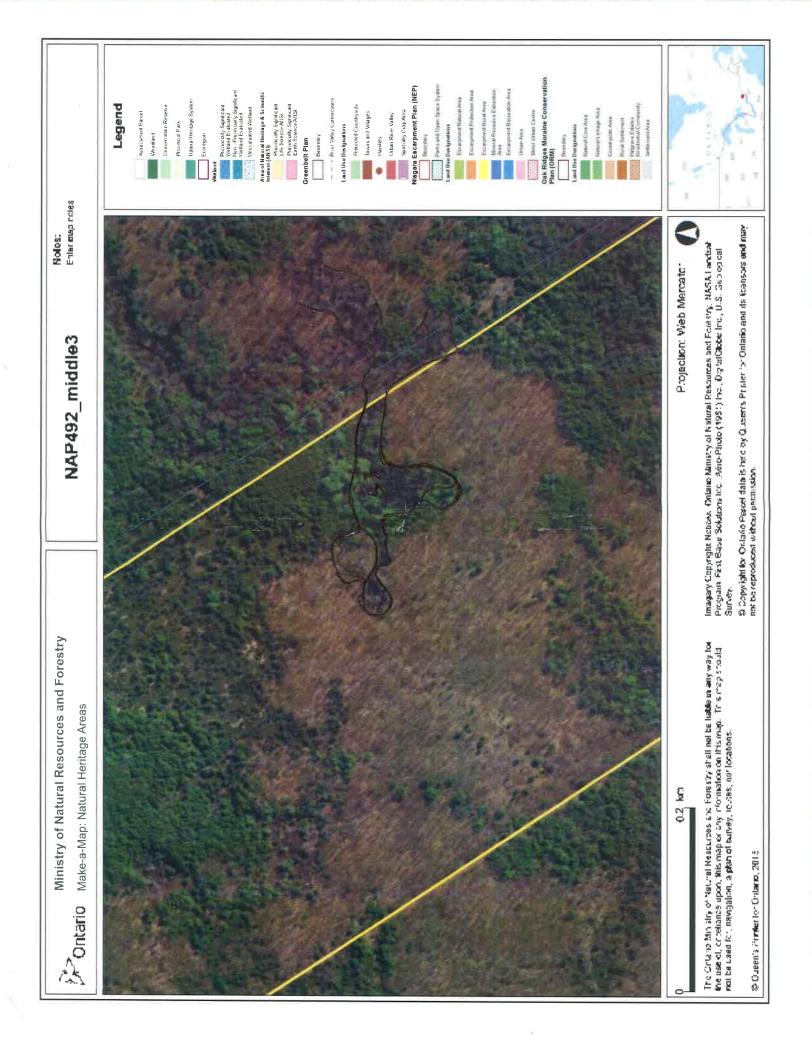
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NOME LIGH ⁻ WODERATE AEAVY BREEDING BIRD - CONFIRMED: AT OF FIRE NOME LIGH ⁻ WODERATE FATNISHE AT OF FIRE NOME LIGH ⁻ WODERATE EXTNISHE AT OF FIRE NOME LIGH ⁻ WODERATE EXTNISHE AT OF FIRE NOME LIGH ⁻ WODERATE NM = YOUNG AT OF FIRE NOME LIGH ⁻ WODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ WODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ WODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ WODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ WODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ WODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ WODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ MODERATE FEAVIO AT OF ICE DAMAGE NOME LIGH ⁻ WODERATE CARCASS AT OF ICE DAMAGE NOME LIGH ⁻ MODERATE CARCASS AT OF ICE DAMAGE NOME LIGH ⁻ MODERATE CARCASS AT OF ICE DAMAGE	EXTENT OF FLOODING	NONE	LOCAL	WIDES®READ	EXTENSIVE				10					
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ELC	POLYGON:	SS		
	DATE:	Juc	16.2016	
WILDLIFE	SURVEYOR(S)	-	J~H	
	START TIME:		END TIME:	
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CONDITIONS:				
POTENTIAL WILDLIFE HABITAT:	HABITAT:			

VERNAL POOLS	SNAGS
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ALTYPE CODES (TY): = BIRD M = MAMMAL H = HERPETOFAUNA L=LEPIDOPTERA F = FISH Q = OTHER ENCE CODES (EV): DING BIRD - POSSIBLE: 3H = SUITABLE HABITAT

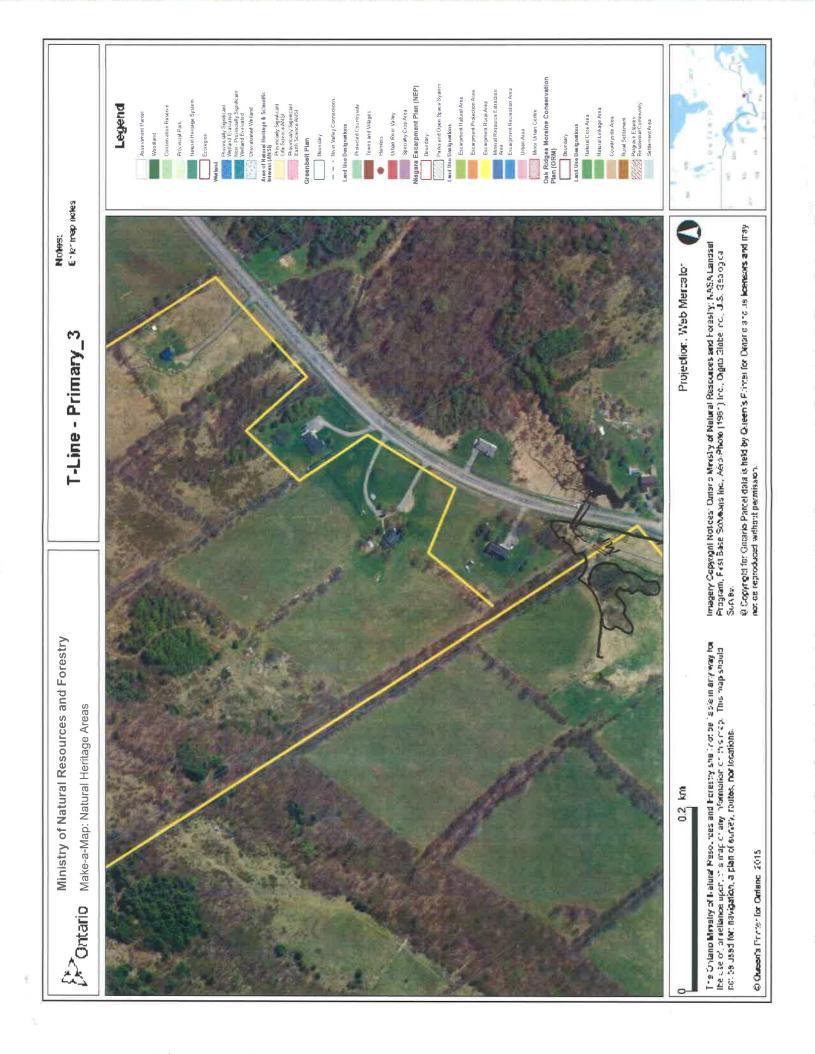
SM = SINGING MALE

FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK P = PAIR V = VISITING NEST D = DISPLAY N = NEST BUILDING NU = USED NEST NY = YOUNG DING BIRD - CONFIRMED: 20 = Distraction 46 = Eggs 46 = Nest Entry DING BIRD - PROBABLE: f = territory a = anxiety behaviour

VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE

CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

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FY = FLEDGED YOUNG FS = FOOD/FAECAL SACK

CA = CARCASS FY = EGGS OR YOUNG SC = SCAT

VO = VOCALIZATION HO = HOUSE/DEN FE = FEEDING EVIDENCE

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NU = USED NEST NY = YOUNG

P = PAIR V = VISITING NEST D = DISPLAY N = NEST BUILDING

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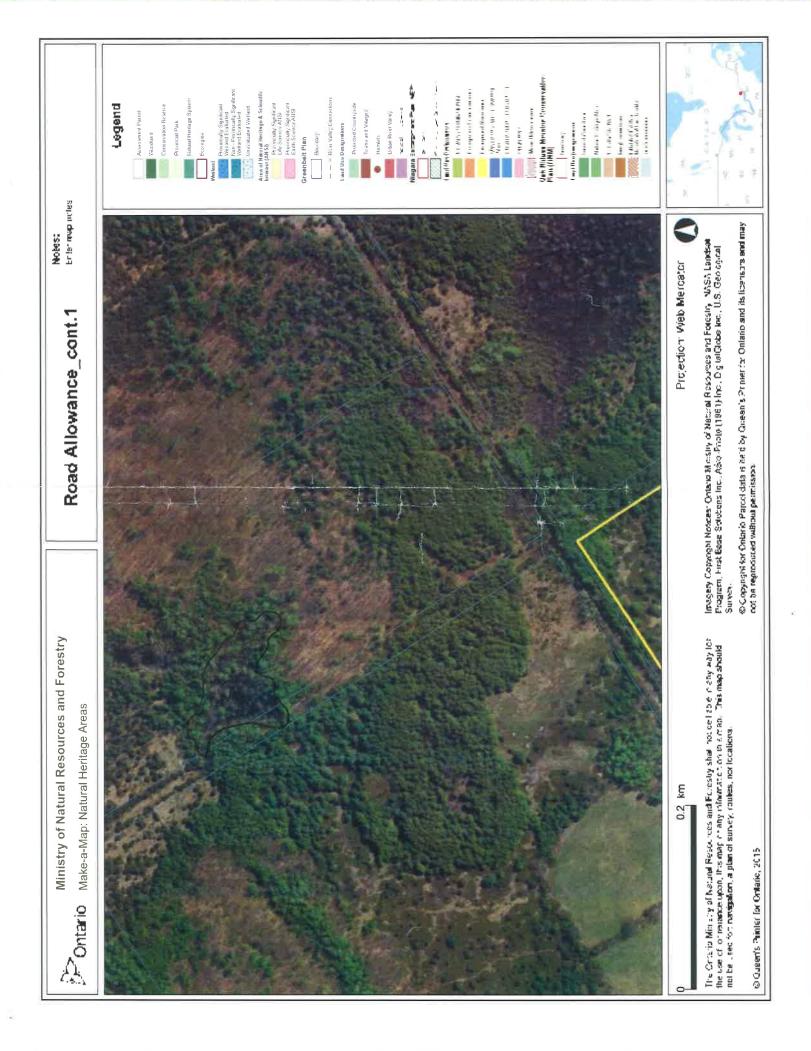
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FLOODING (pools & puddling) h0hE	ų	LIGHT	(MODERATE)	HEAVY			T = T	T = TERRITORY	
EXTENT OF FLOODING hose	_	(LOCU)	TERRED	FILES YE			H = H	INAICIT BEHAV	NOCK.
FIRE ACME	4E	LCHT	4JDEAA'E	HOW			BREEDING DD = 1	BREEDING BIRD - CONFIRMED	RMED:
EXTENT OF FIRE 40%	ų	LOCAL	IN CESPAGNO	EXTERSIVE			NE =	NE = EGGS	
ICE DAMAGE ACUE	ų	LGHT	ADDERATE	مربوع <u>ا</u> ا			AE = P OTHER WII	AE = NEST ENTRY OTHER WILDLIFF EVIDENCE	-aCh
EXTENT OF ICE DAMAGE KONE	4	TO CHT	W DPS:6EMD	ENTERS VE			= 80	OB = OBSERVED	
OTHER AND ADDRESS ADDR	ų	LGHT	MODERAFE	HEAVY			T = XT	UP = DISTINCTIVE PARTS TK = TRACKS	ARTS
EXTENT NONE	ų	LOCAL	VX DESTREND	EVICENSIVE			SI=0	OTHER SIGNS (specify

				1	1.1	3			
	ELC		STE T	SIL	Lon	7-live Locubroge		 1	
			NE 1	21/06	112	9			
			SURVEYOR(S):	-	3	H~N			
			SIGR ^T THE:			END TIME:			
%	E2 :DJeks	CLOI	UD (10th):30	WIN	ä	CLOUD (10th): 2 PRECIPITATION: Voc	∑ ÿ	2	
ŝ	CONDITIONS:								
POI	POTENTIAL WILDLIFE HABITAT:	E HABI	TAT:						
	VERNAL POOLS					SNAGS			
	HIBERNACULA					FALLEN LOGS			
SPE	SPECIES LIST:								
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SPE	SPECIES LIST:								
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FAU	FAUNAL TYPE CODES (TY): B = BIRD M = MAMMAL	ξäγ	H = HERPETOFAUNA	FAUNA		L = LEPIDOPTERA F	F = FISH	0 = OTHEF	
EVIC	EVIDENCE CODES (EV): BREEDING BIRD - POSSIBLE: SH = SUITABLE HABITAT	ui 🗄	SM = SINGING MALE	NGING	MALE				

P = PAIR V = VISITING NEST	PY = F_EDGED YOUN G FS = FOCDY - AEGAL SACK	CA = CARCASS FY = 2005 OR YO JAG SC = SCAT
D = DISPLAY N = NEST BUILDING	NU = USED NEST NY = YOUNG	VO = VOCALIZATION HO = HOUSEDEN FE = FEEDING EVIDENCE
RITORY UETY BEHAVIOUR	URD - CONFIRMED: STRACTION 5GS :ST ENTRY	NLIFE EVIDENCE: 3SERVED STINCTIVE PARTS 2ACKS HER SIGNS (specify)

Page of

Location Koofin / Laugelist Inp Date May 17,201 Project / Client Dillin Con Bluetarth Alvar Accedmon a Carle Charles Lem ac so Nappher. (647-962-7401) STE1: Acres from 721 Centreville Rd. form access lane. STOP 2 Access - growing pills With use it road - preen give Gre that 69 Land 1211 E Sta > form the loss of early saxi rage I ontenerina naturta evenutre NAPO23 > open alver oney I wany colondarie in bloom. la positive of Gen tertorin Alterer - molerte 2 realest Cardina Cronestall & connor thisterior NAPOLI - JUST W, OF 804 HINCH Rd. HAT LIELD ON WART .

NAPO38 - Just Join Minch -007 (c) en south cide 3 cedar row 96.2 Than so small MAY 20 Joll Bluf with Loyalit STET PURPARY ALUAR NO DE CARCENTE A TIMP! 08:00. - Mapping delections > ENTRE Red Cobor alea N. of active quarry is treed alvor + tendy treed sof established that she this no teduard + check density at treed alvar. + TRANSMUSION FIRE IS EAST PROP. Soundas STYF? OPEN HIDAR FAST OF QUARPY WERT LIDE ATU, VEAL & CROAR FEACE OPEN ALVER: MAININ Par, C. Claurer, MARARA + motion to ARAREM partured area - 1 with much open bedrock & open lingible or adjaced prop. (photo)

Floorers complexia common with AOI area murked is particul abor (ivit south of cody bord AD-CUI celtural alur, proto ALVHNO -> excellent alvar woodland 45. Flaring palchy allor abre soit side + i donta innot they at bulldas Railtonce & cedar In moder) NOT, AIVAR > return to Contractly Rd satures, along road variable with some alver medon I wet aber & some indices & reals much of preperty is alve cultured & parties Lime cever upor. SHE 3. +

Location Loyalist Solar Date June 9/16107 Project/Client BluEarth/Dillon Time 0800 Temp 11°C Wind, Moderate North West VEGETATION JURVEYS. -> site 1 NAP 013 A Comm type Rea codar Poa canp (choto 1) Word land Timathy, Tort, Horaysuckle, Birustret, Fra Jury, Vicerac, Varray, Co. milkw, Dasy, Pot. reta, Daw, caroto, Poa prat, Trif. Vulg, Gartsband, Ulmus, Satureja Vulg, Buckthorn, Hier, Florib., Riber cynos, Tarax off, Aster cord, Co. juniper, Cladinia, NE Aster, Fox Poison Ivy, Schumacre, Ribes sp., Hawthan Sp. Rubus Idaeus, Renunc. fasci., Heal-all, St. Johnswart, Panicus sp., Prickly Ash, Chekehenry White Cedar, Dog stranging vine (few) 718 T 0343103 Geven alepicum, Bromus Bl. Cherry 4914760 B Commitype Grassland Alvar/An Exposed Bedrock (photo 2) - will grape, Birdstrot, Co. milkw, Timothy, Relicebr Vic crac, Yarrew, Dave carota, Sedum gera, Frag virg. Buckthern, Chekecherky, Silky dogwood, Poisen Ivy, Drite ash, Carex brevior, Trag duble, Daisy, Poptern Actiminy, Salix pet. Elecampane, Rumax crispis Victimia energer, NE Aster, Grass sp . Euthomia gram. Early granularistew specimens throughout Covex Flara Solidaye cresin, Anternation neglecta, Yellow sweetcher, Pet recta, Rosa blanda, Clinting bitter Sweet, Stag Somach and 3) - over alver

Ecological Services: 2016 Alvar Survey Report- Loyalist Solar

108 Location Date	Location	Date
Project / Client	Project / Client	
- cs. mullein, Tart hancyscide Rulus idaeus, Le juniper, Pot Hieracium prat, Echium culg St. Idaeus, Brann, inermis, Indian hemp, Buttaleverry, Scirpes agecaus Balsam ragwort, Eleochriscomp, Bluecyed grass (S. mantaus) Carex palleseens A Juncus dudley, Boneset 187 0343163 (wiedurd periphery asth)	Aster corditelia Can	et, Herb robert herry, Steghan sumac xicum off. Carex penn ex ouncer, King deuil eu volp. Carex brevi il campane Liac pro-
Bullthistle Jappenied > Alverindiasturs presed set in small # > BF restail is dominant invoi ve > alternase excellent abor rep. Site 2 NAPOII (photo 4)	- pastored - Dar Fescue, Red Clover Builthistle, Pot De Choke cherry (Pho Prickly ash Hieraci	8 Red Color Pa Wood land Al sy, Solidago can to Echium Vulgara, pris to C) Stitch wat m phasella, H. Flarib
Grass dominated open alver / pastired - 1000, red adar, Echium, Daisy, Boilthistle Sedum acro, Yarrow, red obver, Smorth Gooxberry 94. Johnswert (18 T 0342472) Mullein, Ce janger, Hed-All, Pot. Simplex 4914526) Antennar a noglecta, Prickly Ash, Davow carder, Tart honeysockle, Buckthom	NE. aster, vicia c Field possytued, S Trimothy, Yancou, S Mollein, Curly doc) Hoysockle scattered - site in poor cond	Hard H. abranti, St. Johnswart Case of hovery Ehn, P.C. dogs (, Heall-All Rubo throughout to cattle Goats beard, Buck
Hieracium florib, Ranunculus acris, Hieracium pitaila Stitchwort Carex pallosons, Carex flora, Black medick Vicia creca Pot recta, Solidage canadensis, Tart beneysede along fenceline, Fesoue, Field popagrass, Slippert Elm Poison IVY, Wild grape, Aralia nud., Virginia creeper Gootsbawa Hieracium post. Rubus idaeus, Eufhanig gram Cheto 5 18 T 0342676 (Woodland alvar)	Virg creaper, Nahu Crataegus crusts Site 4 NAP A Red Ce	iculus, acris, opineers galli
Earn carnes forming Chekeoberry White birch		and the second second

- Daisy, poison 144, plantain, H florib., NAP 013 NEcoman H. pilosella, Birdsteat thet, Sol. can., Woodland Aller un exp very small Virg creeper, Pot recta, white oak, green ash, Imestone (batrack) A394 Buckthorn, Wild groupe, Co. Juniper, Timothy - miny of deciduous these and shribs Carex brevior, red clover builthis the Bluewest Eucliftion (prevalent) Stag Som, Bessue En Prickly Ash, Sedum aura, Paa, Rubus Idaeus, Field peppergrass Poison Ivy) Vicia craca, Pot. reca geste degraded S. montanum, alphatta 18 T 0394876 Sugar Maple (photo 7) Black Medick, Field Bundwerd, Choked Care granularis, Columbine, wild basil tere robert (Reck barren?) Daviers com Catsbeard, Sugar Maple, Co. junper B - And Red Ceder Par Open grosshed fluor Rubos idaeus Dag strangling vie lipa Erdstat tref. Simaoth gaseberry Mo rig cheqper Trinothy Co, Miltew. - Mollein, Yarrao, Daisy, Bullthistle, Aquilegia, Honeysuckle (thrashout), Timothy Davebs coucha, red claser, H. Florib, Sol. con (Photo 8) 18 T 0344951 Pot Simplex 4912911 Each butteroup Site & NAPOID Open Rock b Field peppergross Geom triflorom, Juncos SP.3 - poa, Sedum arra, red cedar, Black Medick, Carex patescens, Frag virgi mensuckle Basswood, Bucktham Juncos dudlei, Antennaria, Carex granuloris Charle charry Photo A3944 Virg. Cm weet Notte Co. M. Ikw Arabos q Curly dock, S. montanom, Alsike clover Heal All, Scirpes cyperious NE askry Sender Ranoncolus acris Black Me Scirpes atrovirant, Yellow sweet clover, Nannyberry Mullein, False penyroyal Evening Nigi + florib , Rubus idaeus tica. Goatst Buckthorn and Hiney suckle throughout Dogwood. Davis carota 18 T 0344729 Chokecherry (tragrant Sumac) 491305-Hairy beardtongue Co. milking SIK + NAPO21 South Gassla (Photo 9) (proto 43948) deixe prairie smoke (field) 14. aurtentanic M Par | Red Cedar

112 Date Epcation _____ Date - choke chirry alfalter, unld pars - Sedum acra, Curly dock, Fescue Bland Sedge, Co. Milkweed, Yarrow, buckthorn, Goats beard, Timothy Daxos Carota, Bramos, Pot recta, H. florib., red clover, vicia crac Pop tremb, Carex vulp, Yellau sweatcher Pot recta, Basswood, Mullein Buck them, Nig. creeper frickly ashe Wild grape, Sol. can., Fescue photo 43942 Grey dogward Wild grape photo 43937 White ash, Nigcreek Vicia craca Shiny Sumac Alphatta Gallion molluga Carex previor H. Florib, Birdsfort tret. - transitional alvar a tew aryles plantage lanciplatem thraghat NE aster R.O. dogwood Salix pet. - King devil Smooth gooseberry St. Johnswort, Bonoset Quarry Alvar 0800 Site 8 NAP 021 North East Bed Cedar , Poor Woodland Photo 43941 clear 16°C nowind June 15/16 - Aransitional alvar, speces mix similar Red Cedar Poa asolard -Daisy, P. Florib, red clour, St Johnsuir to site 7. Apple thee Rendeer moss Medick, Stellaria, Fajva Site 9 NAPO21 North West Antennaria, Pot simplex, Daucus C., Epium, photo 43939 Same as above Rubs i daevs, Vitis, Mullein, Co. Milkin, bloc eyed grass, balson ragioant Panicom sp., Yarrow, Danthenie, Breme Carex sp. Ranupculus acris, Lody Ern, Site 10 NAP 038 Red Cedur Page Vicio craca, Poison IVA, Gootsbeard, Erigero Woodlant Alvar Choke cherry, Solidago nemoralis, Tarapucum - Birdstoot thef. Co. Milkweed, James. a d basil, Symp.cord, Buckthorn, Smooth 30 Selastrus scantas, Heal-All, Veronica ottic. - Paucos carota, Robos (daees, Dais)

 Internation Provect / Chent NE aster, Sheep sorrel, While ash, Elm Haney suckle, Ribes, cypts, Sugar Maple, Bur Oak, Iron wood, Prickly Ash, Ike 2A NAP 492 Open Grass Alyar 	n annens 1 When Spe ella praeltu
Honey suckle, Ribes, Cypos, Sugar Maple, Bur Oak, Spirea alba, Shruby Cington Iron ward, Prickly Ash, (sak ash) Spirea alba, Shruby Cington Ded Plantzin, Pop tiern, Pilose Carx gractillima, Curly dock	l Water Spe ella praeltu
Iron wood, Prickly Ash, (sake sh) Ded Plantein, Pop tiern, Pilose Carx gractillima, Curly dock	ella praeltu
(sake sh) Carx graftlime, Curly dock	
1/2 2A NAP492 Own Grass Alvar Some endonce of cattle in the sa	meast con
the state of the s	
- early buttereop, Joneus duller, Heal-Hill, Ste 2 B Cultural Alver 1	200 Gebor
Caex palesiens, Eliocaris compressa, S. montanum Dite 20 Cultury Huar I Reavily P Salpemoralis, Dandelion, Bareset, White closer, -prantain, daisy porchard grass	s Rubes
P flando, Antennaria, Red Gdar, NE askr mai All, Pot Simplex, Marcos	5, Prickly
Davis, Yarraw, Wild grape, Erigeren ganves Echium, Medice, Rea Uner	, UTOPE)
Carex vulp, Scirpos atrovinens, Slippery Elm, Del can, Lan. Inistie, Tar	Fac, Corly d
I reads americanas Gallim based Salex versions Del Mistie, Multim, Shipping	Charles Ing
Indian Hemp, Panicom philedalficum, Butennaria, Ironwood, Black Daisy White Sprou, White color Poison Ivy, Buckthorn, Hr	ilosella.
unto 43944 Frag vice, Silky dogwood, Sirpus cyperines, Eleocomp,	Danthom
Daisy White Sprou, White color photo 43944 Frag virg, Silky dogwood, Science Sprous Cyperines, Electron, Hr Bock than (faw), Salex pet, poggiggeene Sprous Enthemice Vicia crasa, Bird	is hest Trebs
THEN THE LOOK OCCOMMANY FITS A MILE	ALL AL
Bull thistle, Carex auren, Caex crawer, SITES IVAL TOT WITHING PA	ear road
Later previor, 111, and, the sign of reach principal - white ash prickly cohing	et cetar.
Caex hystericina, Poa conversion Caex interine Support Elm, Fickly och, or	sward,
Caes historias Pod connesser Carok interine Support Lim, Fic paperat	ass, whit
These croca while redarsoppers scattered Llover red Crover, Mollen	Loriga
(bron sal. [scatter]/not inviating) Echium, Daisy, Meddick	110000-0

A.

House I Manual		Manager Market
Project / Cleant		-
Project / Client Project / Client Site 4 NAP493B - medick, Pot simp, Dass Sigar Maple, Bock thorn, Carex palescens, Carex go Sigar Maple, Bock thorn, Carex palescens, Carex go St. Johnswort, P. Horib., Sym. cord., Romuncolas of toparagis, Red clover, E Intennenia, - neavily po tellew subt clover, Elm, 1 Sofrpos Cyp., Cores pen tol. caes., photo 43: Imothy, Junces dudles, Site 5 NAP493C Site 5 NAP493C Site 9 Cingetol, Bull TH Scherge Cingetol, Bull TH Scherge Cingetol, Bull TH Site G. Hell holes r	Northeast Red Cabu Pt g, Mase air, Hai All, Prickly Ash, Rubo idau ac, Sol. can, Ribes 9 Mullein, Sol. junces, ingeron phil stund, Parliering P Carex gran y, Wild grape 296 Balson regarent Eleo comp Saytheast II posch Grossbad Alle histle Daisy Ranuncelus, Tarrau arex brevier, Peppergnis el, Carex Vilp, Civy de	-gaulthena, Inst Alvar Site 7 Hell hole rad Northeas Danse Red Cate Jun - Carex penn, Sol. Sp. P. Flomb, Alvar - Carex penn, Sol. Sp. P. Flomb, Alvar - Carex penn, Sol. Sp. P. Flomb, Alvar - Carex Buck thorn S. mortanum, Desy Victor Craca, Pap trem, Panicum Desp Victor Craca, Pap trem, Panicum Craca, gran, Yaraw, Deucus, Eally butter Cup. Sal can Ulots) Canada anonne Crat. Crus-gelli Craca grac, Raign avens Equise Spires alba, RL, doguetod Caex and Care Flava, Wild Mint, Heal-All, Creeper, White pine

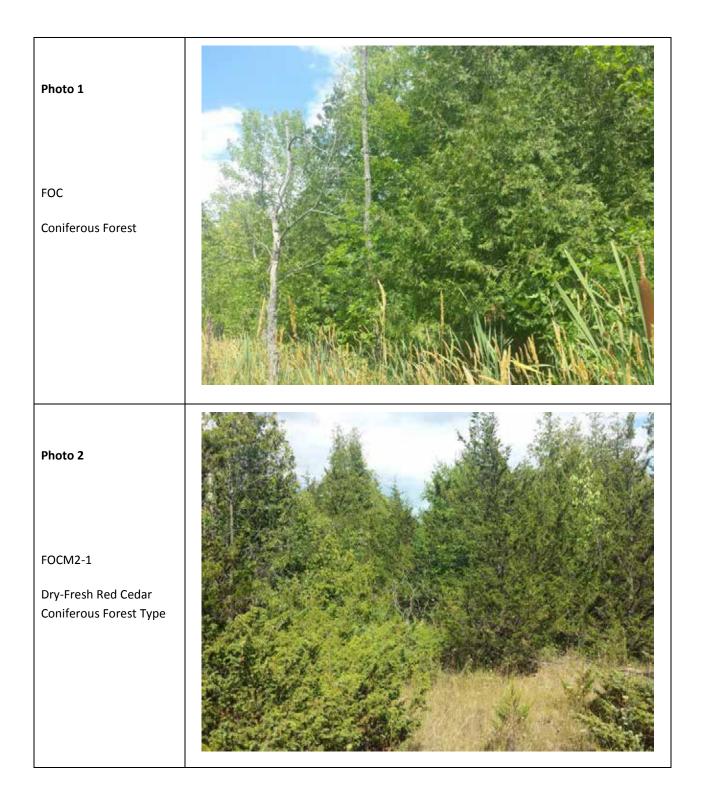
Loydis where Date June 21 216 124 Date Net Wing 30% cc. Project / Client Rock NAPOB North NAP283 > COJUMPER / SUMAC/ POR The Red Coor Pon to Aver Barcen wood (shrubland -OPEN Graubon -Atre anoned + mixed holusody. Corex Am - march sedrock while color www. Medick, Buthinging tol can donsy, fromine cyl, sumac. Rd- Doch Selection, Milkwed, Davens, C. bolton con, Vic Crocca Da. 10mg C. MENIOR, B.F. Trebolly K.D. Dogmends ba prot. from very of sinder. the cracea, Cuchtered, Chlem, Edin harry bleve On Priver, Sul Ivace, Knaper The Dogund, June Judley; EV. Dancon Pchilum, Jud Hax Securin acre, Million, Corris Samira Red Clast, Celestrussending, Repusidore = uniper. Pot. norr. Pot. reater. thereased subtribut when an Benned, Dury, Oh. Mary, Spirosa Abr. - Creept, Echiva, Pu, enmouse find falle at which a cedar of En ideus, Tort. Moreysukly Bromessia. may new Ruber aynuboth, Sheep sound indicator ... a. praetty, Carope, Sug, Abde Tosi alox, Pil senteres rac, Tarax, all the the Whing Odum preale Frag virg , blanda. sellin matheau. 1 Al uncles Prickly Alt Value Iva that establish protocol but Jew allor SQD. -> Roch Barcoms

Appendix B

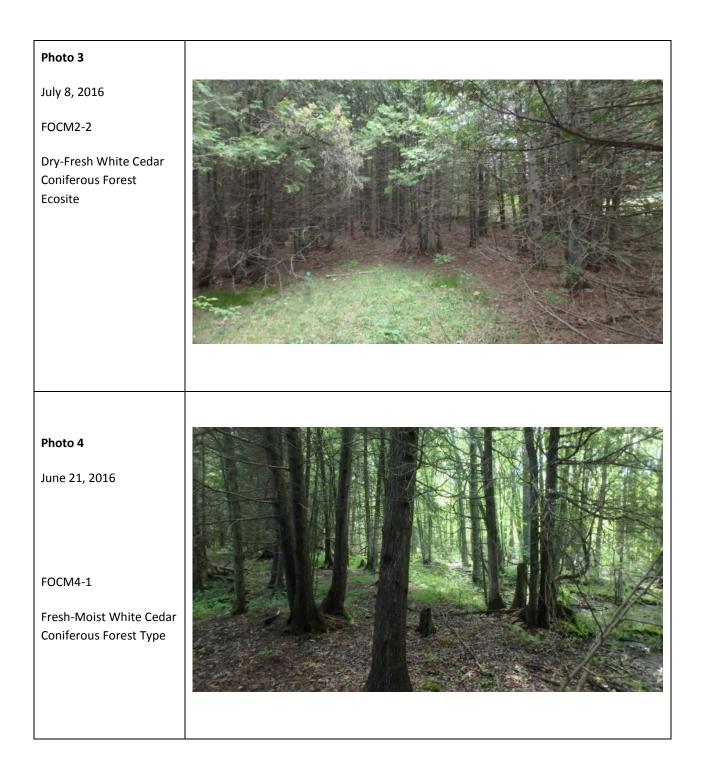
Site Photographs

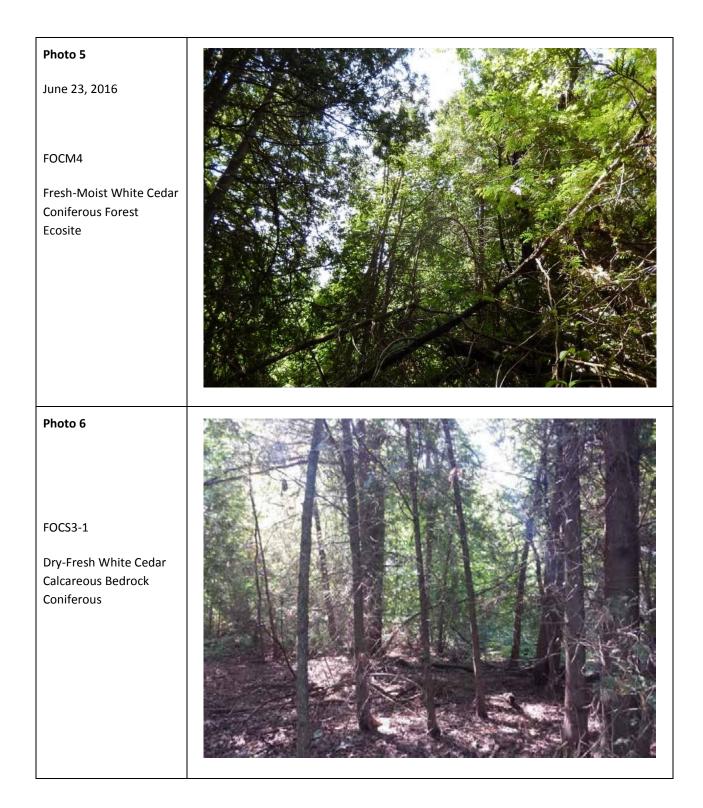


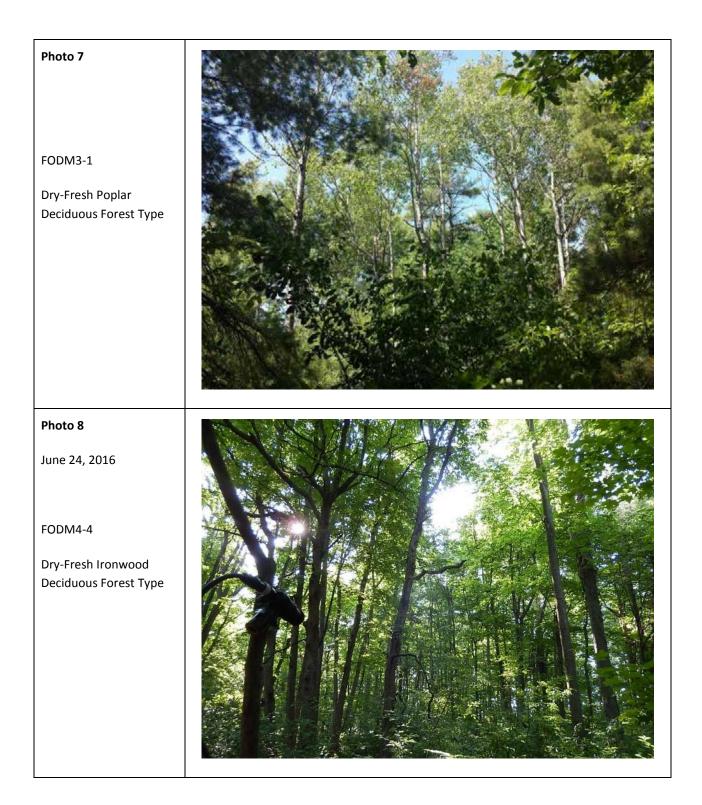


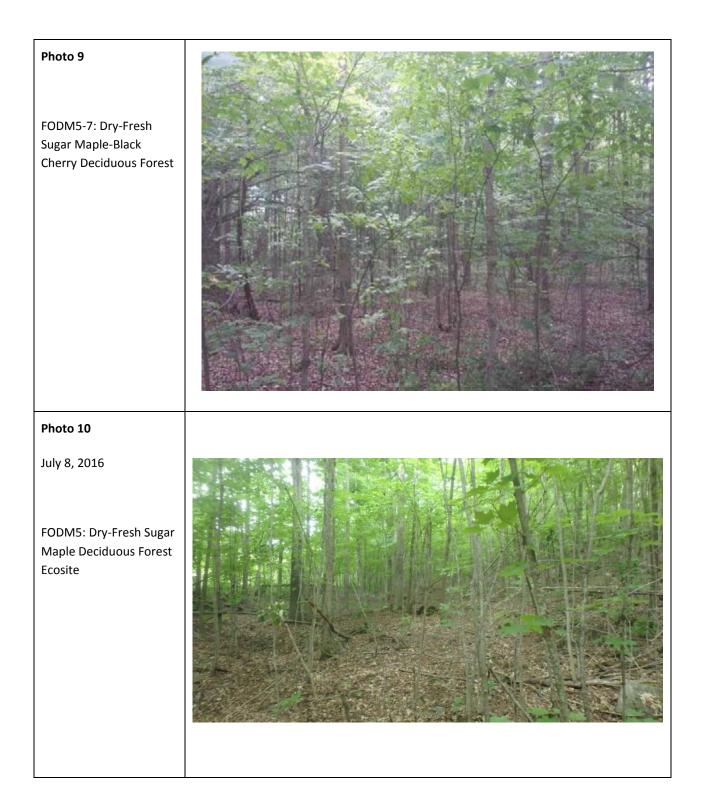


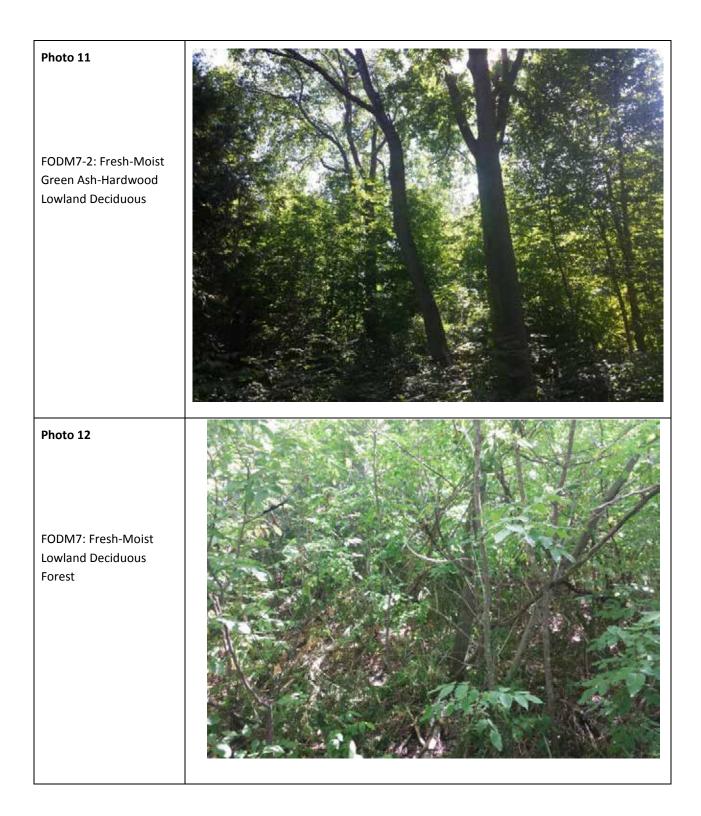
Loyalist Solar Project Natural Heritage Assessment Site Investigation Report Appendix B



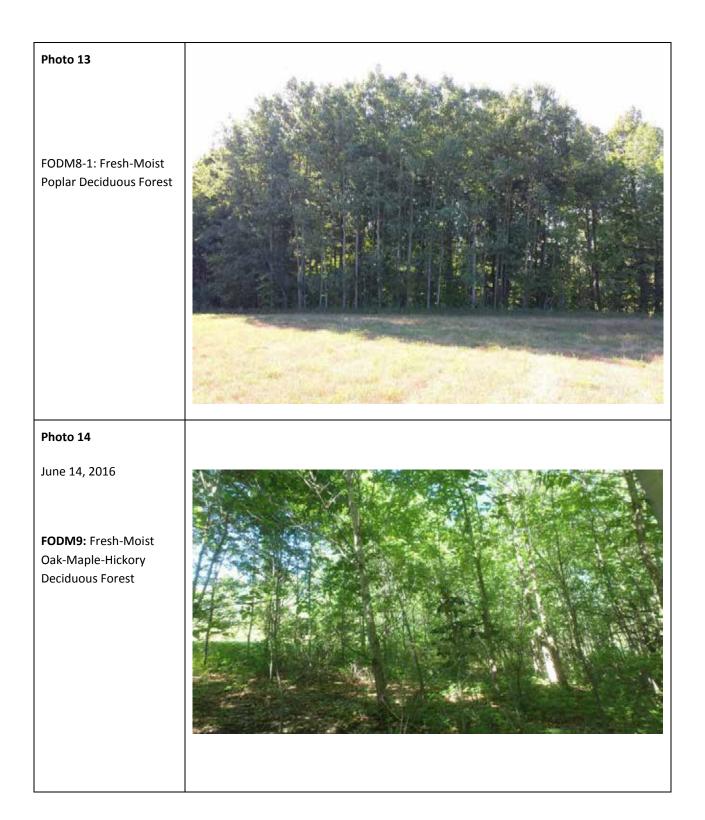


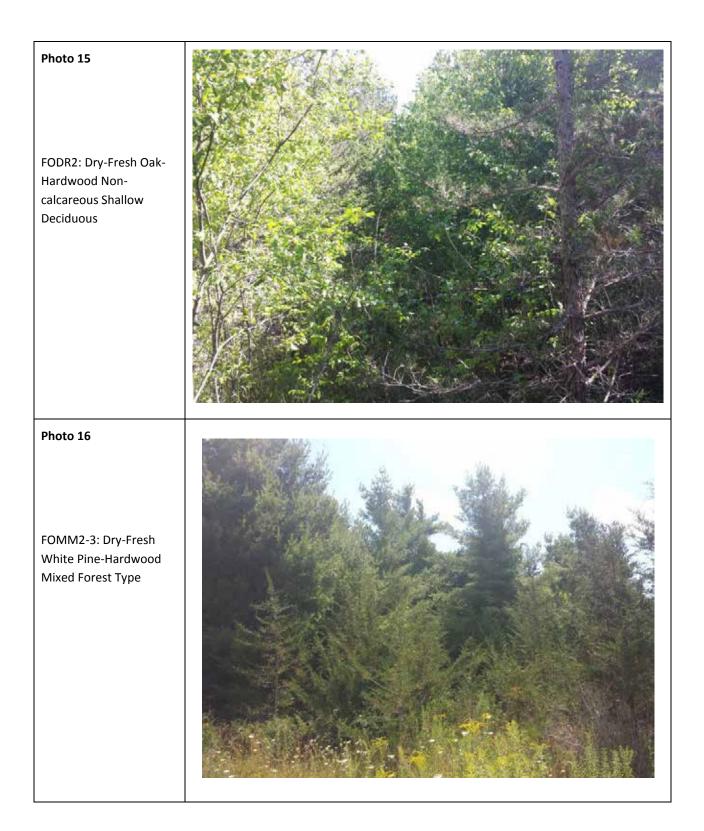


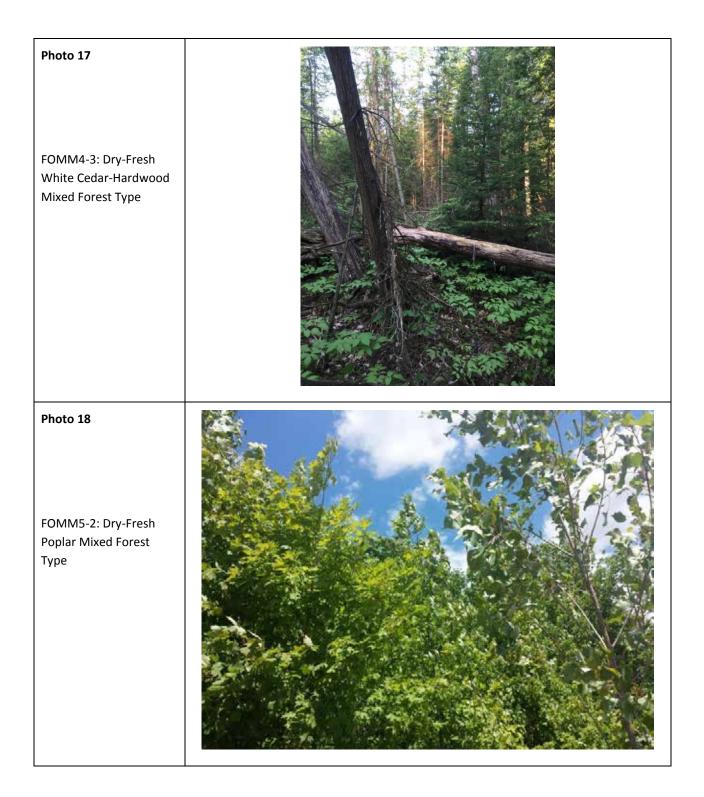


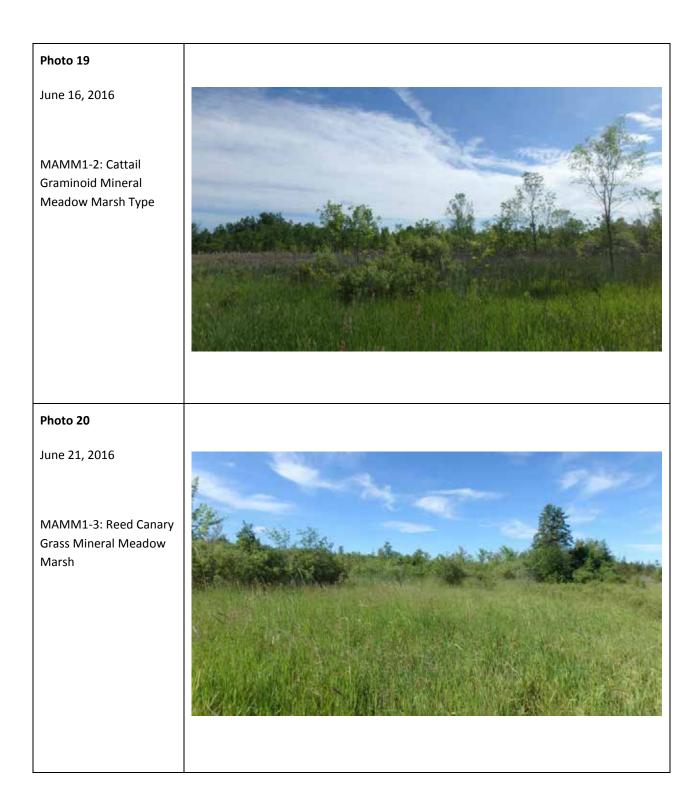


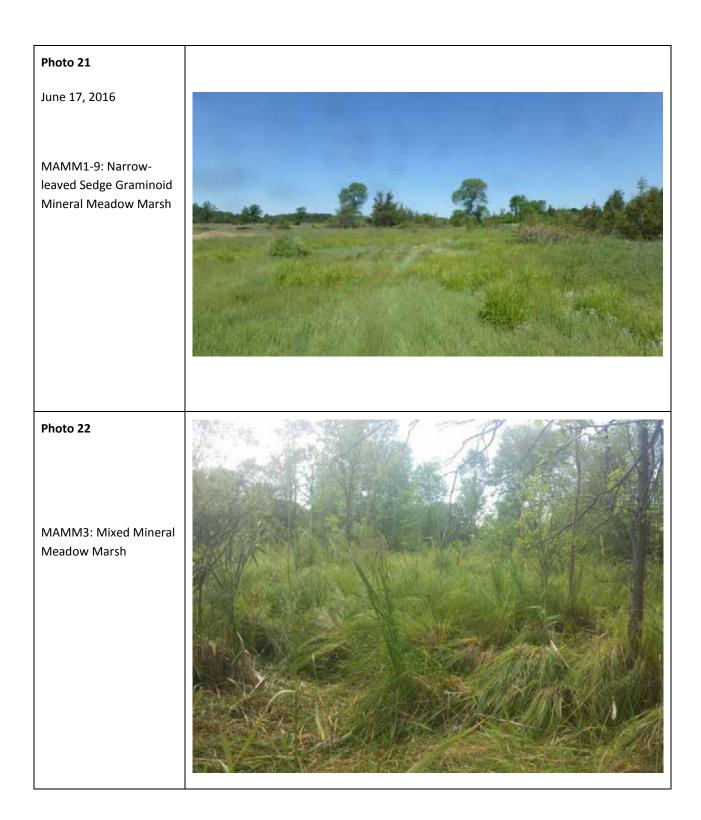
Loyalist Solar Project Natural Heritage Assessment Site Investigation Report Appendix B

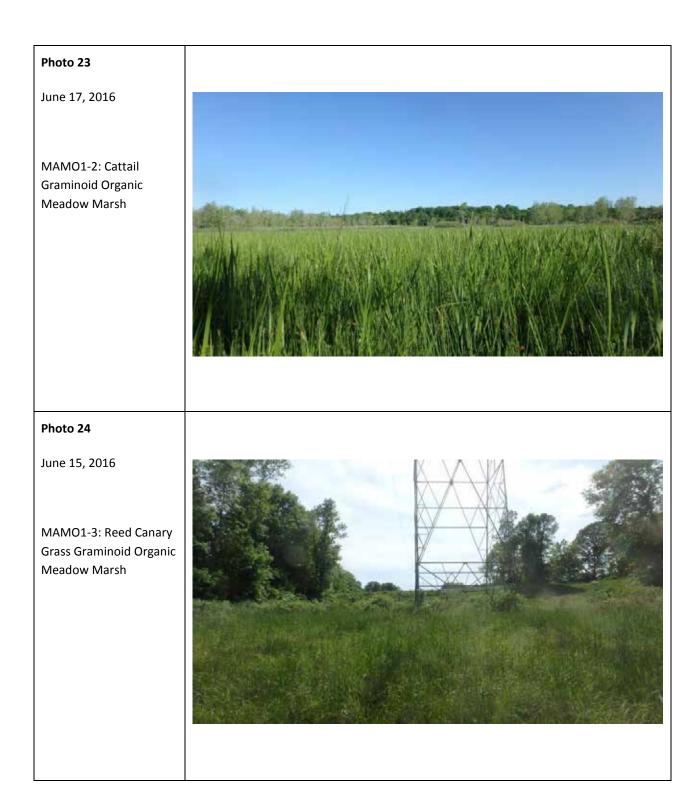


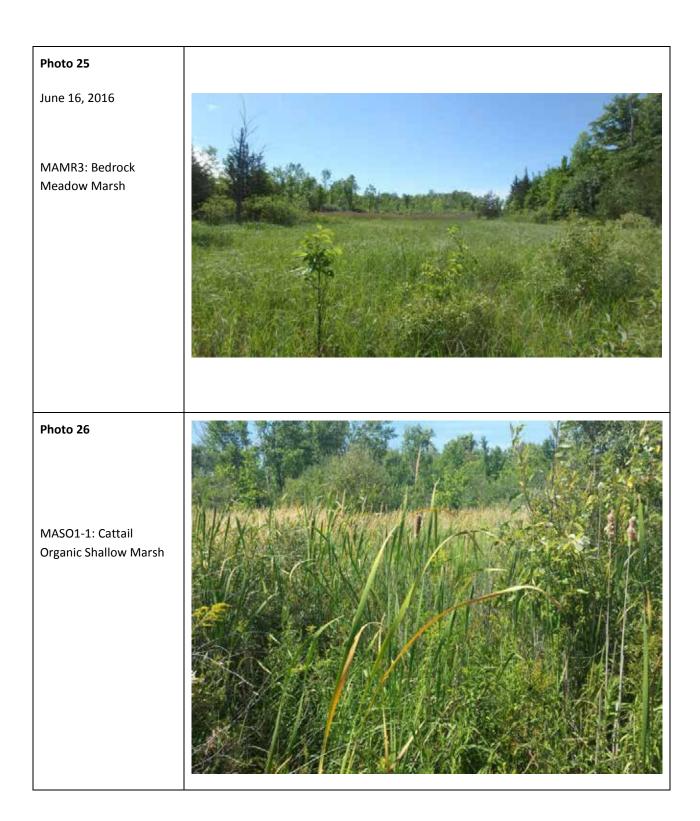


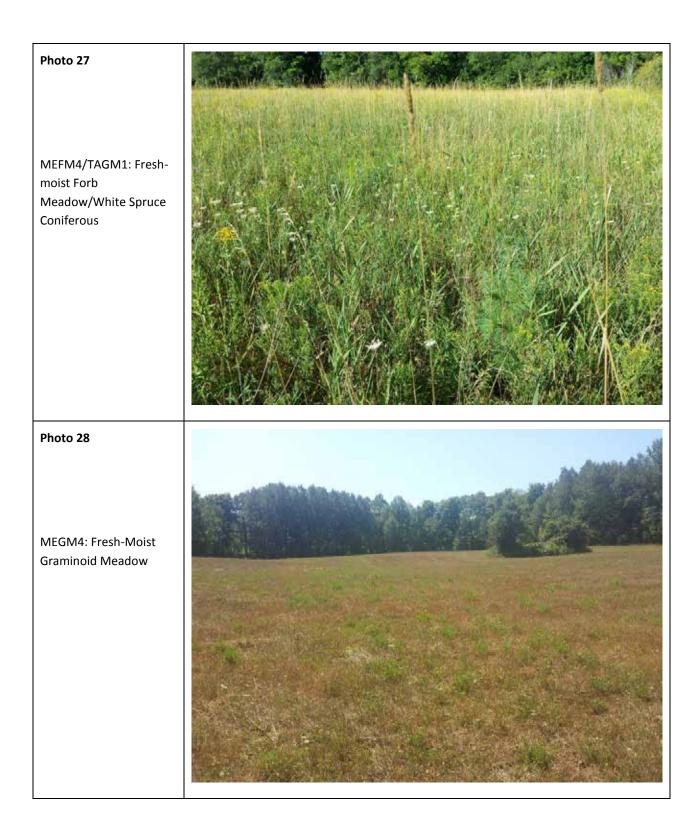












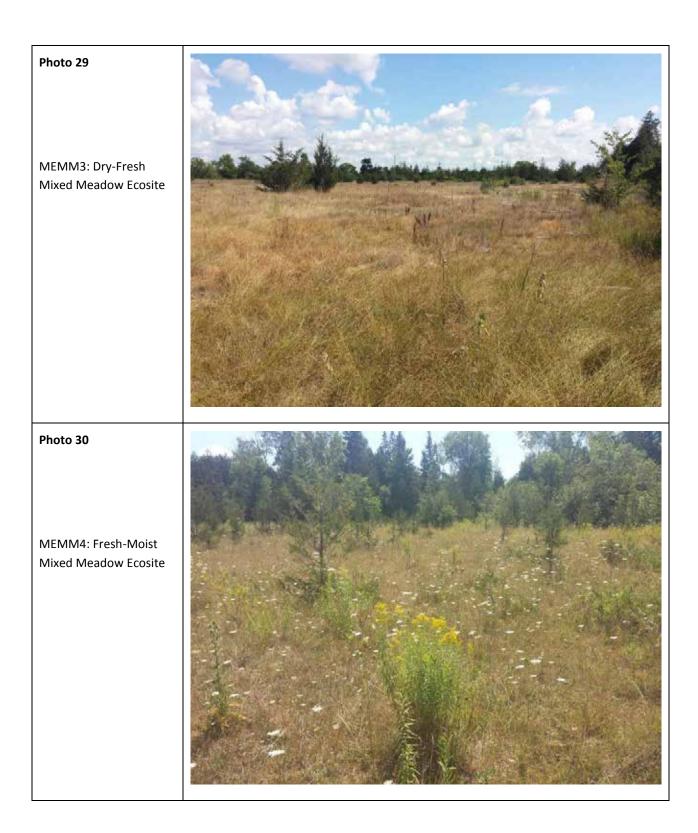
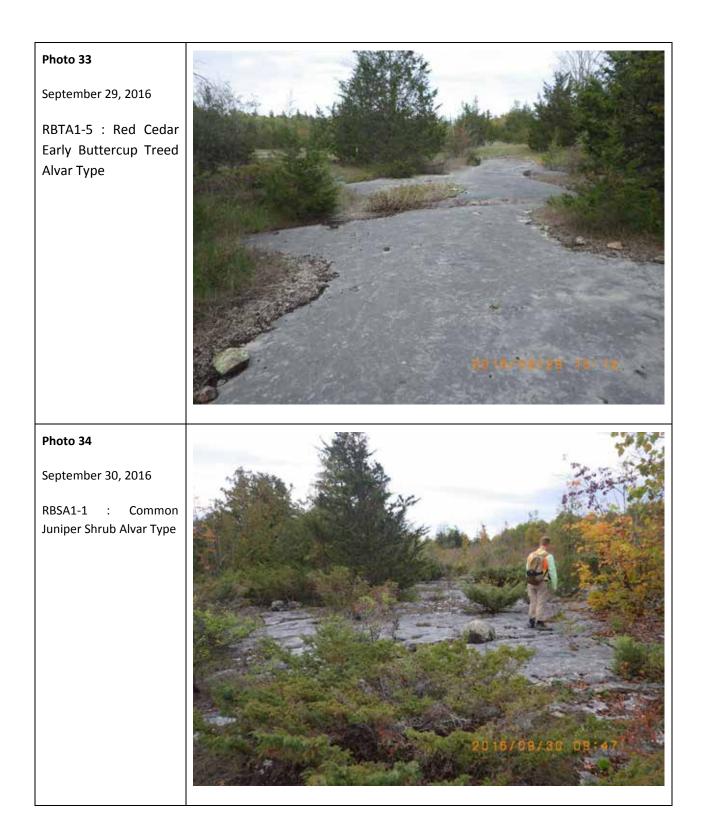
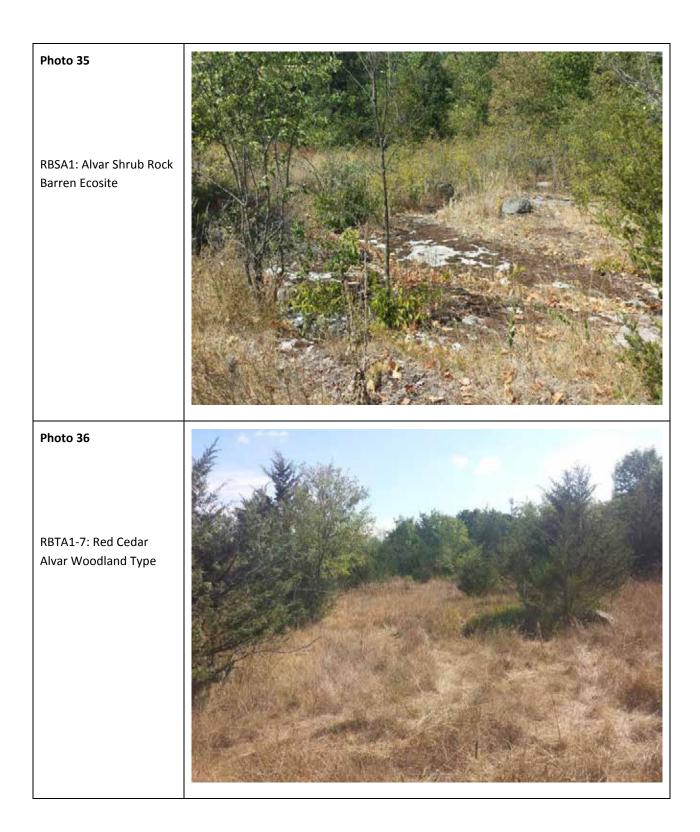
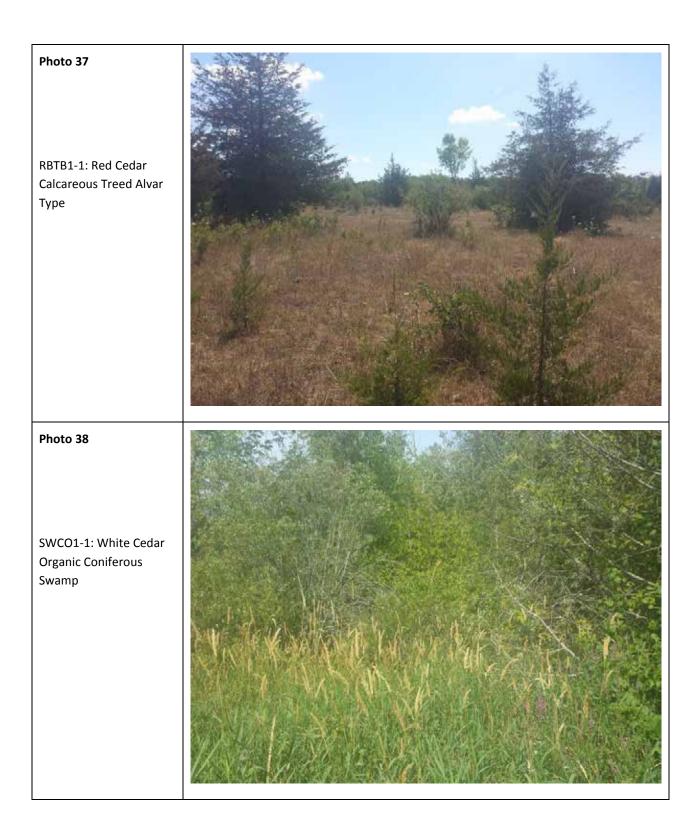
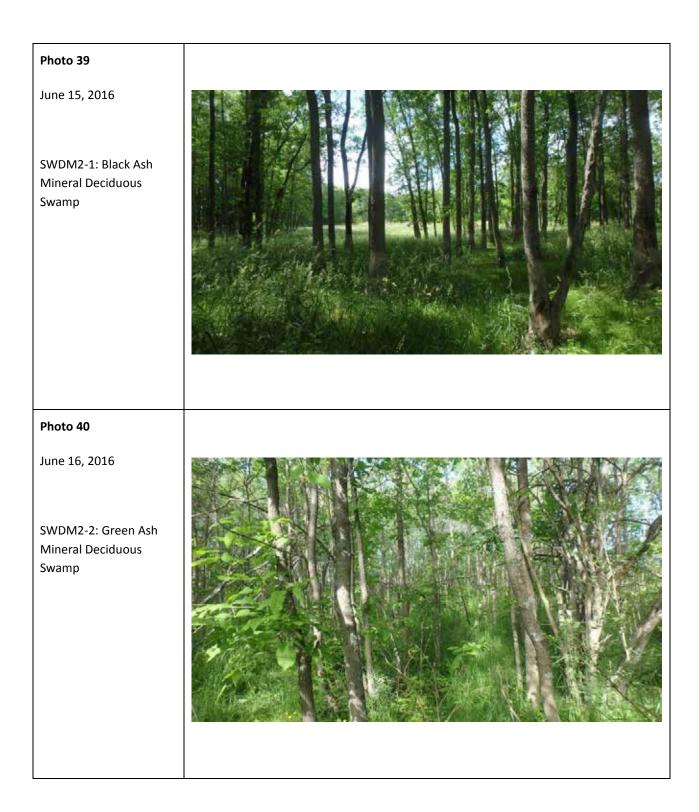


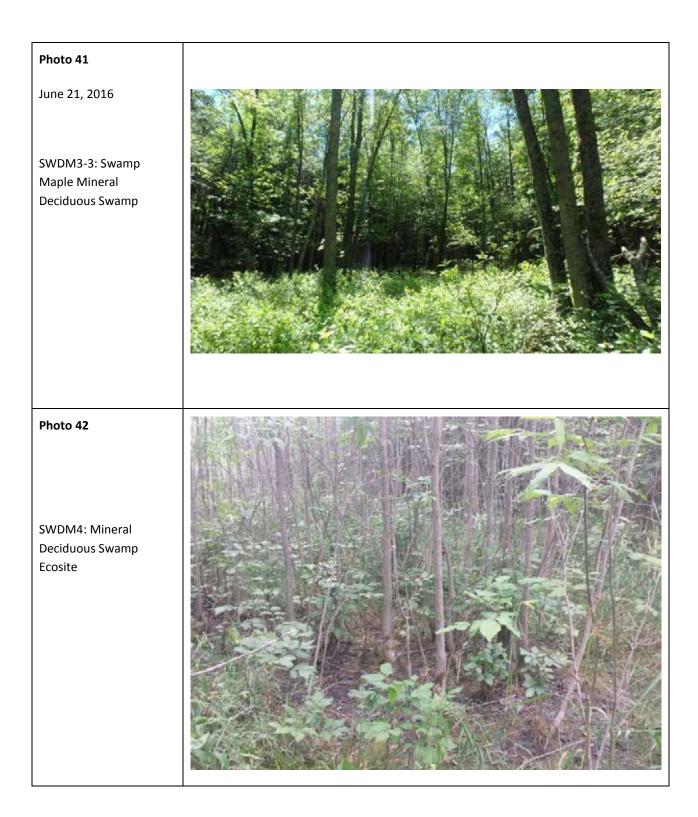
Photo 31	
July 8, 2016	
MEMR2: Dry-fresh Non- calcareous Bedrock Mixed Meadow Ecosite	
Photo 32	
RBOA1-1: Dry Lichen- Moss Open Alvar Pavement Type	

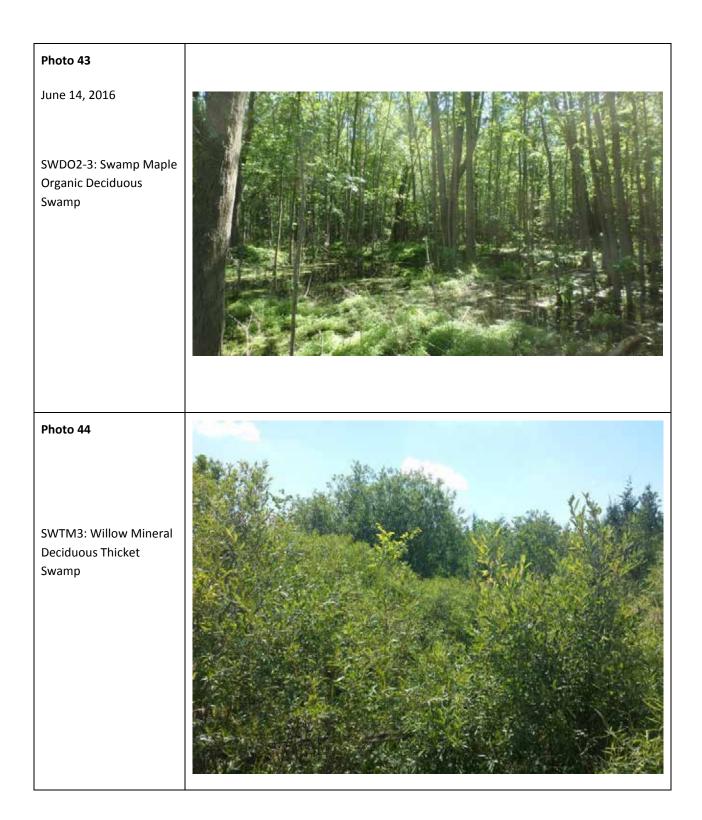


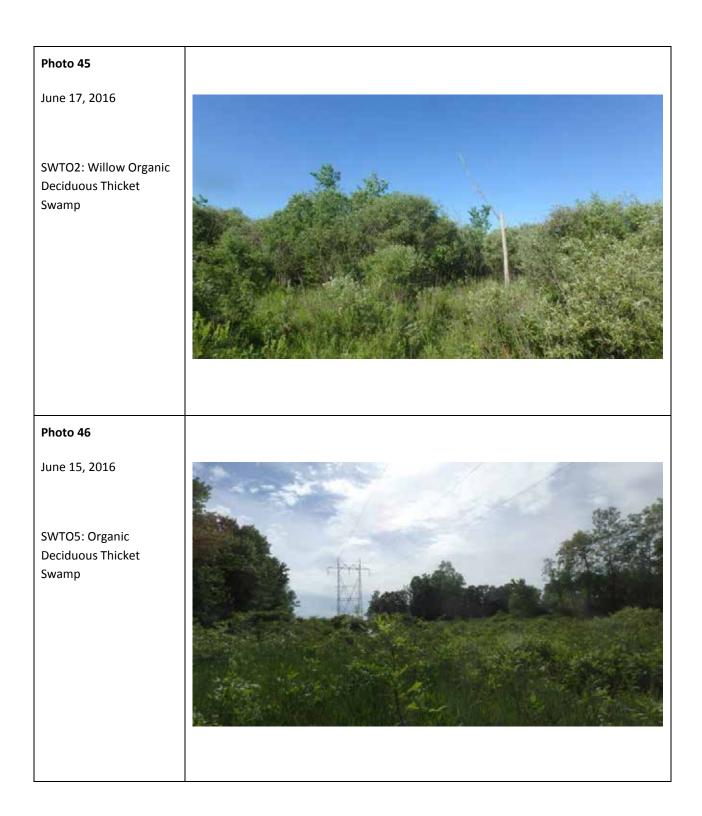


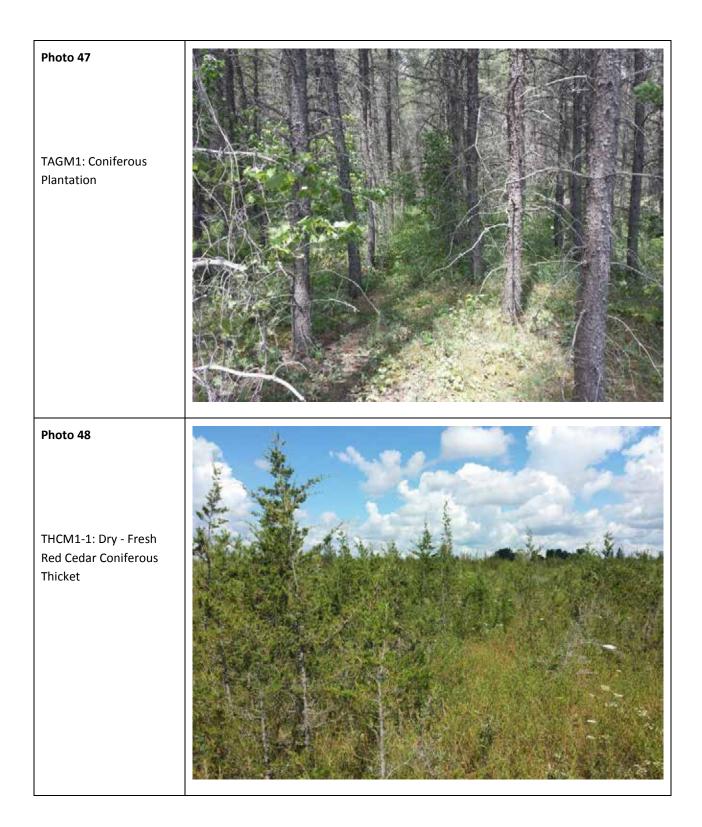


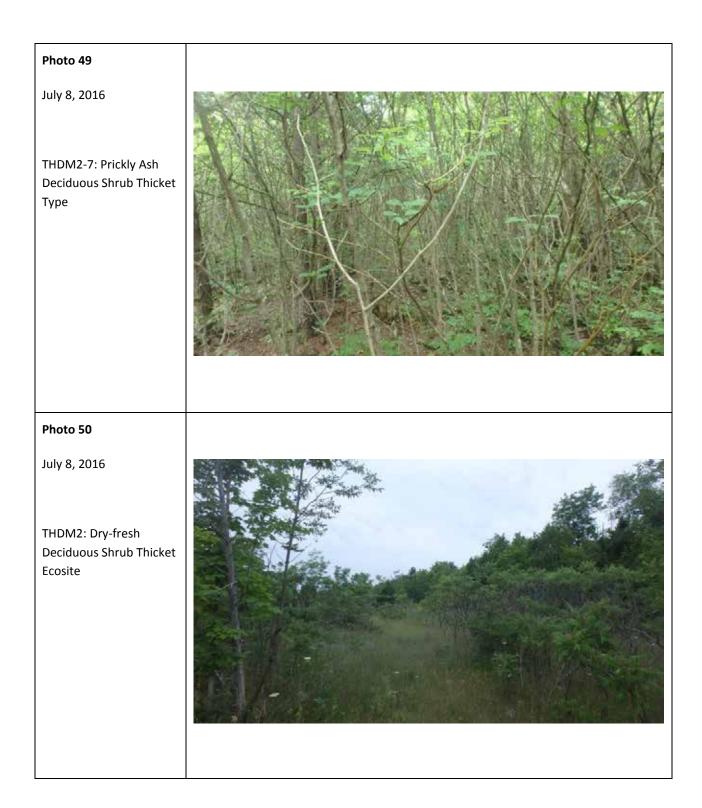






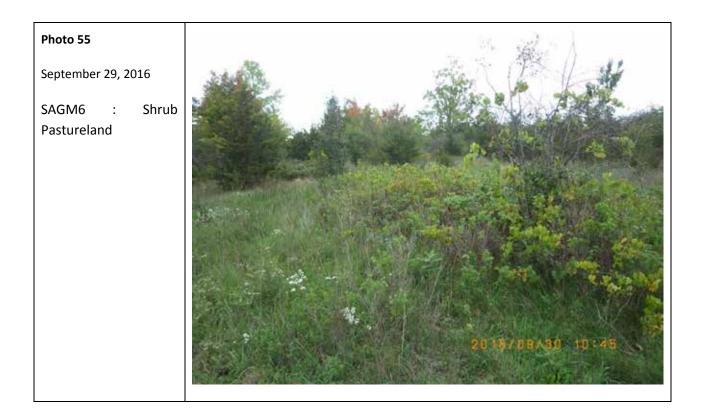












ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	FOCM4: Fresh-moist						
	White Cedar Coniferous				OAGM4: Open		
10	Forest Ecosite	0.80	10-1	45	Pasture	0.95	45-47
	FOCM4: Fresh-moist						
	White Cedar Coniferous				OAGM4: Open		
10	Forest Ecosite	1.83	10-2	45	Pasture	0.98	45-48
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	0.32	11-1	45	Pasture	1.07	45-49
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	8.53	11-10	45	Pasture	0.14	45-5
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	4.30	11-11	45	Pasture	0.48	45-50
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	0.06	11-12	45	Pasture	2.05	45-51
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	4.35	11-13	45	Pasture	2.10	45-6
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	1.14	11-14	45	Pasture	0.45	45-7
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	0.65	11-15	45	Pasture	0.85	45-8
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAGM4: Open		
11	Forest Type	0.57	11-16	45	Pasture	0.97	45-9
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAO: Open		
11	Forest Type	4.38	11-17	46	Aquatic Area	0.04	46-1

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAO: Open		
11	Forest Type	2.03	11-2	46	Aquatic Area	0.14	46-10
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous				0.00.0000		
11	Bedrock Coniferous	1.25	11-3	16	OAO: Open	1 5 2	46-11
11	Forest Type FOCS3-1: Dry-Fresh	1.25	11-3	46	Aquatic Area	1.52	40-11
	White Cedar Calcareous						
	Bedrock Coniferous				OAO: Open		
11	Forest Type	1.30	11-4	46	Aquatic Area	0.16	46-2
	FOCS3-1: Dry-Fresh	1.50				0.10	
	White Cedar Calcareous						
	Bedrock Coniferous				OAO: Open		
11	Forest Type	0.67	11-5	46	Aquatic Area	0.18	46-3
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAO: Open		
11	Forest Type	0.90	11-6	46	Aquatic Area	0.08	46-4
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous						
	Bedrock Coniferous				OAO: Open		
11	Forest Type	3.52	11-7	46	Aquatic Area	0.11	46-5
	FOCS3-1: Dry-Fresh						
	White Cedar Calcareous				040.000		
11	Bedrock Coniferous Forest Type	0.93	11-8	46	OAO: Open Aquatic Area	0.33	46-6
11	FOCS3-1: Dry-Fresh	0.95	11-0	40	Aqualic Alea	0.55	40-0
	White Cedar Calcareous						
	Bedrock Coniferous				OAO: Open		
11	Forest Type	0.25	11-9	46	Aquatic Area	0.10	46-7
	FODM3-1: Dry-Fresh	_			• •		
	Poplar Deciduous Forest				OAO: Open		
12	Туре	0.70	12-1	46	Aquatic Area	0.70	46-8
	FODM4-2: Dry-Fresh						
	White Ash-Hardwood				OAO: Open		
13	Deciduous Forest Type	2.95	13-1	46	Aquatic Area	0.15	46-9
					RBOA1-1: Dry		
	FODM4-2: Dry-Fresh				Lichen-Moss		
	White Ash-Hardwood				Open Alvar		
13	Deciduous Forest Type	1.02	13-2	47	Pavement Type	2.65	47-1
	FODM4-2: Dry-Fresh				RBSA1-1:		
10	White Ash-Hardwood	F 20	12.2	40	Common Juniper	ГОО	40.1
13	Deciduous Forest Type	5.29	13-3	49	Shrub Alvar Type	5.98	49-1

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	FODM4-2: Dry-Fresh				CVR_4: Rural		
	White Ash-Hardwood				Residential		
13	Deciduous Forest Type	0.68	13-4	5	Property	0.85	5-1
	FODM4-4: Dry-Fresh				CVR_4: Rural		
	Ironwood Deciduous				Residential		
14	Forest Type	1.05	14-1	5	Property	0.43	5-10
	FODM4-4: Dry-Fresh				CVR 4: Rural		
	Ironwood Deciduous				Residential		
14	Forest Type	1.85	14-2	5	Property	0.28	5-11
	FODM4-4: Dry-Fresh				CVR_4: Rural		
	Ironwood Deciduous				Residential		
14	Forest Type	2.22	14-3	5	Property	0.47	5-12
	FODM4-4: Dry-Fresh				CVR 4: Rural		
	, Ironwood Deciduous				Residential		
14	Forest Type	0.42	14-4	5	Property	0.38	5-13
	FODM5-2: Dry-Fresh				CVR_4: Rural		
	Sugar Maple-Beech				Residential		
15	Deciduous Forest Type	6.45	15-1	5	Property	0.43	5-14
	FODM5-4: Dry-Fresh				CVR 4: Rural		
	Sugar Maple-Ironwood				Residential		
16	Deciduous Forest Type	0.64	16-1	5	Property	0.86	5-15
_	FODM5-4: Dry-Fresh				CVR_4: Rural		
	, Sugar Maple-Ironwood				Residential		
16	Deciduous Forest Type	0.06	16-2	5	Property	0.45	5-16
-	FODM5-4: Dry-Fresh				CVR_4: Rural		
	Sugar Maple-Ironwood				Residential		
16	Deciduous Forest Type	0.05	16-3	5	Property	0.51	5-17
-	FODM5-4: Dry-Fresh				CVR_4: Rural		
	Sugar Maple-Ironwood				Residential		
16	Deciduous Forest Type	0.20	16-4	5	Property	0.70	5-18
-	FODM5-4: Dry-Fresh				CVR 4: Rural		
	Sugar Maple-Ironwood				Residential		
16	Deciduous Forest Type	18.47	16-5	5	Property	0.19	5-19
-	FODM5-4: Dry-Fresh	-			CVR_4: Rural		
	Sugar Maple-Ironwood				Residential		
16	Deciduous Forest Type	0.22	16-6	5	Property	0.40	5-2
-	FODM5-4: Dry-Fresh				CVR_4: Rural		
	Sugar Maple-Ironwood				Residential		
16	Deciduous Forest Type	1.00	16-7	5	Property	0.20	5-20
	FODM5-7: Dry-fresh		-		/		
	Sugar Maple-Black				CVR_4: Rural		
	Cherry Deciduous				Residential		
17	Forest Type	2.49	17-1	5	Property	0.19	5-21

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	FODM5-7: Dry-fresh						
	Sugar Maple-Black				CVR_4: Rural		
	Cherry Deciduous				Residential		
17	Forest Type	0.33	17-2	5	Property	0.47	5-22
	FODM5-7: Dry-fresh						
	Sugar Maple-Black				CVR_4: Rural		
	Cherry Deciduous				Residential		
17	Forest Type	0.47	17-3	5	Property	2.04	5-23
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.37	19-1	5	Property	0.49	5-24
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.08	19-10	5	Property	0.36	5-25
	FODM5: Dry-Fresh				CVR 4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.24	19-11	5	Property	0.67	5-26
	FODM5: Dry-Fresh				CVR_4: Rural		
	, Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.46	19-12	5	Property	0.14	5-27
	FODM5: Dry-Fresh				CVR_4: Rural		
	, Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.44	19-13	5	Property	0.49	5-28
	FODM5: Dry-Fresh				CVR_4: Rural		
	, Sugar Maple Deciduous				Residential		
19	Forest Ecosite	1.19	19-14	5	Property	1.39	5-29
	FODM5: Dry-Fresh				CVR_4: Rural		
	, Sugar Maple Deciduous				_ Residential		
19	Forest Ecosite	3.13	19-15	5	Property	0.11	5-3
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.71	19-17	5	Property	0.44	5-30
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	1.05	19-18	5	Property	1.30	5-31
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.33	19-19	5	Property	0.72	5-32
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.73	19-2	5	Property	0.46	5-33
	FODM5: Dry-Fresh	5.75			CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.64	19-20	5	Property	0.17	5-34

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	FODM5: Dry-Fresh Sugar Maple Deciduous				CVR_4: Rural Residential		
19	Forest Ecosite	2.20	19-21	5	Property	0.06	5-35
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.72	19-22	5	Property	1.07	5-36
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous			_	Residential		
19	Forest Ecosite	0.08	19-23	5	Property	0.08	5-37
	FODM5: Dry-Fresh				CVR_4: Rural		
19	Sugar Maple Deciduous Forest Ecosite	2.08	19-24	5	Residential Property	0.62	5-38
15	FODM5: Dry-Fresh	2.08	15-24	5	CVR_4: Rural	0.02	J-30
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	1.88	19-25	5	Property	0.37	5-39
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.05	19-26	5	Property	0.05	5-4
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous			_	Residential		
19	Forest Ecosite	1.84	19-27	5	Property	0.68	5-40
	FODM5: Dry-Fresh Sugar Maple Deciduous				CVR_4: Rural Residential		
19	Forest Ecosite	0.44	19-28	5	Property	0.21	5-41
	FODM5: Dry-Fresh	0.44	15 20	5	CVR_4: Rural	0.21	5 +1
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.30	19-29	5	Property	0.42	5-42
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.47	19-3	5	Property	0.77	5-43
	FODM5: Dry-Fresh				CVR_4: Rural		
10	Sugar Maple Deciduous	2 70	10.20	-	Residential	0.10	F 44
19	Forest Ecosite FODM5: Dry-Fresh	2.78	19-30	5	Property CVR_4: Rural	0.19	5-44
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.25	19-31	5	Property	0.37	5-45
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.42	19-32	5	Property	0.21	5-46
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	1.53	19-33	5	Property	0.19	5-47
	FODM5: Dry-Fresh				CVR_4: Rural		
19	Sugar Maple Deciduous Forest Ecosite	0.33	19-34	5	Residential	1 1 1	5-48
19	FOREST ECOSILE	0.33	19-34	5	Property	1.14	J-4ð

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.08	19-35	5	Property	0.96	5-49
	FODM5: Dry-Fresh				CVR_4: Rural		
10	Sugar Maple Deciduous	0.00	10.20	_	Residential	0.44	
19	Forest Ecosite	0.69	19-36	5	Property	0.44	5-5
	FODM5: Dry-Fresh Sugar Maple Deciduous				CVR_4: Rural Residential		
19	Forest Ecosite	0.62	19-37	5	Property	1.71	5-50
15	FODM5: Dry-Fresh	0.02	15.57	5	CVR_4: Rural	1.71	5.50
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.28	19-38	5	Property	0.56	5-57
	FODM5: Dry-Fresh				CVR 4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.98	19-39	5	Property	0.71	5-58
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.73	19-4	5	Property	0.26	5-59
	FODM5: Dry-Fresh				CVR_4: Rural		
40	Sugar Maple Deciduous	0.62	10 5	_	Residential	0.00	5.0
19	Forest Ecosite	0.62	19-5	5	Property	0.93	5-6
	FODM5: Dry-Fresh Sugar Maple Deciduous				CVR_4: Rural Residential		
19	Forest Ecosite	0.53	19-6	5	Property	0.21	5-60
15	FODM5: Dry-Fresh	0.55	15.0	5	CVR_4: Rural	0.21	5.00
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.21	19-7	5	Property	0.18	5-61
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous				Residential		
19	Forest Ecosite	0.18	19-8	5	Property	0.26	5-62
	FODM5: Dry-Fresh				CVR_4: Rural		
	Sugar Maple Deciduous		10.0	_	Residential		
19	Forest Ecosite	0.23	19-9	5	Property	0.40	5-63
					CVR_4: Rural		
2	Cultural Alvar	10.44	2-1	5	Residential Property	0.22	5-64
۷		10.44	2-1	5	CVR_4: Rural	0.23	5-04
					Residential		
2	Cultural Alvar	1.61	2-2	5	Property	0.33	5-65
					CVR_4: Rural		
					Residential		
2	Cultural Alvar	1.15	2-3	5	Property	0.48	5-66
					CVR_4: Rural		
					Residential		
2	Cultural Alvar	0.84	2-4	5	Property	0.55	5-67

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	FODM7-2: Fresh-moist Green Ash-Hardwood Lowland Deciduous				CVR_4: Rural Residential		
20	Forest	0.29	20-1	5	Property	0.10	5-68
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				CVR_4: Rural		
	Lowland Deciduous				Residential		
20	Forest	0.80	20-10	5	Property	0.34	5-69
	FODM7-2: Fresh-moist				- 1 7		
	Green Ash-Hardwood				CVR_4: Rural		
	Lowland Deciduous				Residential		
20	Forest	0.33	20-11	5	Property	0.92	5-7
	FODM7-2: Fresh-moist					0.01	
	Green Ash-Hardwood				CVR_4: Rural		
	Lowland Deciduous				Residential		
20	Forest	1.05	20-12	5	Property	0.27	5-70
	FODM7-2: Fresh-moist	1.00	20 12		roperty	0.27	
	Green Ash-Hardwood				CVR 4: Rural		
	Lowland Deciduous				Residential		
20	Forest	0.95	20-13	5	Property	0.17	5-71
20	FODM7-2: Fresh-moist	0.55	20-13	5	Поренцу	0.17	5-71
	Green Ash-Hardwood				CVR_4: Rural		
	Lowland Deciduous				Residential		
20	Forest	0.63	20-14	5	Property	0.02	5-72
20	FODM7-2: Fresh-moist	0.03	20-14	5	горену	0.02	5-72
	Green Ash-Hardwood				CVR_4: Rural		
	Lowland Deciduous				Residential		
20	Forest	2.68	20-15	5		0.30	5-73
20		2.00	20-15	5	Property	0.50	5-75
	FODM7-2: Fresh-moist Green Ash-Hardwood				C) (D. A. Durral		
					CVR_4: Rural		
20	Lowland Deciduous	0.74	20.16		Residential	0.25	F 74
20	Forest	0.74	20-16	5	Property	0.35	5-74
	FODM7-2: Fresh-moist				C) (D. A. Dunal		
	Green Ash-Hardwood				CVR_4: Rural		
	Lowland Deciduous		20.47	_	Residential		
20	Forest	0.44	20-17	5	Property	0.94	5-75
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				CVR_4: Rural		
• •	Lowland Deciduous		22.45	_	Residential	0.00	
20	Forest	0.18	20-18	5	Property	0.28	5-76
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				CVR_4: Rural		
	Lowland Deciduous			_	Residential		
20	Forest	0.09	20-19	5	Property	0.25	5-77

20 F 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ODM7-2: Fresh-moist Green Ash-Hardwood owland Deciduous Forest ODM7-2: Fresh-moist Green Ash-Hardwood	0.19					
20 F F G L	orest ODM7-2: Fresh-moist	0.19			CVR_4: Rural Residential		
F G L	ODM7-2: Fresh-moist	0.20	20-2	5	Property	0.25	5-78
G L			202		1 operty	0.25	570
L					CVR_4: Rural		
	owland Deciduous				Residential		
20 F	orest	3.86	20-20	5	Property	0.32	5-8
	ODM7-2: Fresh-moist				7		
	Green Ash-Hardwood				CVR_4: Rural		
	owland Deciduous				Residential		
	orest	0.91	20-21	5	Property	0.56	5-9
	ODM7-2: Fresh-moist	0.51	20 21		Troperty	0.50	5.5
	Green Ash-Hardwood				RBSA1: Alvar		
	owland Deciduous				Shrub Rock		
	orest	0.41	20-22	50	Barren Ecosite	0.92	50-1
	ODM7-2: Fresh-moist	0				0.01	
	Green Ash-Hardwood				RBSA1: Alvar		
	owland Deciduous				Shrub Rock		
	orest	0.20	20-23	50	Barren Ecosite	1.31	50-2
	ODM7-2: Fresh-moist	0.20	20 23		Barren Ecosite	1.51	50 2
	Green Ash-Hardwood				RBSA1: Alvar		
	owland Deciduous				Shrub Rock		
	orest	0.62	20-24	50	Barren Ecosite	2.91	50-3
	ODM7-2: Fresh-moist	0.02	20 24	50	Darren Ecosite	2.51	50 5
	Green Ash-Hardwood				RBTA1-7: Red		
	owland Deciduous				Cedar Alvar		
	orest	0.98	20-25	51	Woodland Type	7.61	51-1
	ODM7-2: Fresh-moist	0.50	20 25	51	Woodiana Type	7.01	51 1
	Green Ash-Hardwood				RBTA1-7: Red		
	owland Deciduous				Cedar Alvar		
	orest	0.27	20-26	51	Woodland Type	5.35	51-12
	ODM7-2: Fresh-moist	0.27	20 20	51	Woodiana Type	5.55	51 12
	Green Ash-Hardwood				RBTA1-7: Red		
	owland Deciduous				Cedar Alvar		
	orest	0.90	20-27	51	Woodland Type	0.69	51-13
	ODM7-2: Fresh-moist	0.50	20 21	51		0.05	51 15
	Green Ash-Hardwood				RBTA1-7: Red		
	owland Deciduous				Cedar Alvar		
	orest	0.49	20-3	51	Woodland Type	1.66	51-14
	ODM7-2: Fresh-moist	0.49	20-3	51		1.00	J1-14
	Green Ash-Hardwood				RBTA1-7: Red		
	owland Deciduous				Cedar Alvar		
	orest	0.25	20-4	51	Woodland Type	1.48	51-15

	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				RBTA1-7: Red		
	Lowland Deciduous				Cedar Alvar		
20	Forest	1.37	20-5	51	Woodland Type	11.46	51-2
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				RBTA1-7: Red		
	Lowland Deciduous				Cedar Alvar		
20	Forest	0.31	20-6	51	Woodland Type	16.14	51-4
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				RBTA1-7: Red		
	Lowland Deciduous				Cedar Alvar		
20	Forest	0.44	20-7	51	Woodland Type	1.88	51-2
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				RBTA1-7: Red		
	Lowland Deciduous				Cedar Alvar		
20	Forest	0.72	20-8	51	Woodland Type	1.68	51-1
	FODM7-2: Fresh-moist						
	Green Ash-Hardwood				RBTA1-7: Red		
	Lowland Deciduous				Cedar Alvar		
20	Forest	0.74	20-9	51	Woodland Type	0.92	51-3
	FODM7: Fresh - Moist				RBTA1-7: Red		
	Lowland Deciduous				Cedar Alvar		
21	Forest	0.09	21-2	51	Woodland Type	0.76	51-5
	FODM7: Fresh - Moist				RBTA1-7: Red		
	Lowland Deciduous				Cedar Alvar		
21	Forest	1.05	21-3	51	Woodland Type	11.56	51-7
					RBTA1-7: Red		
	FODM8-1: Fresh-moist				Cedar Alvar		
22	Poplar Deciduous Forest	0.71	22-1	51	Woodland Type	3.87	51-8
	·				RBTA1-7: Red		
	FODM8-1: Fresh-moist				Cedar Alvar		
22	Poplar Deciduous Forest	0.40	22-2	51	Woodland Type	14.79	51-9
\rightarrow		-			RBTB1-1: Red	_	
	FODM8-1: Fresh-moist				Cedar Calcareous		
22	Poplar Deciduous Forest	1.59	22-3	52	Treed Alvar Type	1.55	52-10
	,		-		RBTB1-1: Red		-
	FODM8-1: Fresh-moist				Cedar Calcareous		
22	Poplar Deciduous Forest	0.82	22-4	52	Treed Alvar Type	1.16	52-11
	,				RBTB1-1: Red		
	FODM8-1: Fresh-moist				Cedar Calcareous		
22	Poplar Deciduous Forest	1.89	22-5	52	Treed Alvar Type	2.42	52-5
		1.05		52	RBTB1-1: Red		<u> </u>
	FODM8-1: Fresh-moist				Cedar Calcareous		
					Treed Alvar Type		

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					RBTB1-1: Red		
	FODM8-1: Fresh-moist				Cedar Calcareous		
22	Poplar Deciduous Forest	0.54	22-7	52	Treed Alvar Type	0.44	52-9
					SWCO1-1: White		
					Cedar Organic		
	FODM8-1: Fresh-moist				Coniferous		
22	Poplar Deciduous Forest	2.04	22-8	53	Swamp	3.27	53-1
					SWCO1-1: White		
	FODM9: Fresh-moist				Cedar Organic		
	Oak-Maple-Hickory				Coniferous		
23	Deciduous Forest	0.34	23-1	53	Swamp	2.24	53-2
					SWCO1-1: White		
	FODM9: Fresh-moist				Cedar Organic		
	Oak-Maple-Hickory				Coniferous		
23	Deciduous Forest	0.41	23-2	53	Swamp	1.54	53-3
	FODR2: Dry-Fresh Oak-						
	Hardwood Non-				SWCO1-1: White		
	calcareous Shallow				Cedar Organic		
	Deciduous Forest				Coniferous		
24	Ecosite	0.08	24-1	53	Swamp	0.42	53-4
	FODR2: Dry-Fresh Oak-	0.00			onanip	0112	
	Hardwood Non-				SWCO1-1: White		
	calcareous Shallow				Cedar Organic		
	Deciduous Forest				Coniferous		
24	Ecosite	0.47	24-2	53	Swamp	1.92	53-5
27	FOMM2-3: Dry-Fresh	0.47	272		Swamp	1.52	33.3
	White Pine-Hardwood				SWD: Deciduous		
25	Mixed Forest Type	3.82	25-1	54	Swamp	0.61	54-1
25	wincer orest type	5.02	23 1	54	SWDM2-1: Black	0.01	541
	FOMM2-3: Dry-Fresh				Ash Mineral		
	White Pine-Hardwood				Deciduous		
25	Mixed Forest Type	1.07	25-2	55	Swamp	1.49	55-1
25	mixed forest type	1.07	252		SWDM2-1: Black	1.45	55 I
	FOMM2-3: Dry-Fresh				Ash Mineral		
	White Pine-Hardwood				Deciduous		
25	Mixed Forest Type	1.45	25-3	55	Swamp	0.34	55-2
23	winted rolest rype	1.45	23-3	33	SWDM2-2: Green	0.54	JJ-Z
	EOMMA2 2: Dry Erach				Ash Mineral		
	FOMM2-3: Dry-Fresh White Pine-Hardwood				Deciduous		
າະ		0.10		EC		202	56 1
25	Mixed Forest Type	0.19	25-4	56	Swamp	2.83	56-1
					SWDM2-2: Green		
	FOMM4-3: Dry-Fresh				Ash Mineral		
20	White Cedar-Hardwood	44.20	26.1	F.C.	Deciduous	0.54	FC 10
26	Mixed Forest Type	14.30	26-1	56	Swamp	0.54	56-10

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
					SWDM2-2: Green		
	FOMM4-3: Dry-Fresh				Ash Mineral		
	White Cedar-Hardwood				Deciduous		
26	Mixed Forest Type	5.01	26-2	56	Swamp	1.57	56-11
					SWDM2-2: Green		
	FOMM4-3: Dry-Fresh				Ash Mineral		
	White Cedar-Hardwood				Deciduous		
26	Mixed Forest Type	2.74	26-4	56	Swamp	0.33	56-12
					SWDM2-2: Green		
	FOMM5-2: Dry-Fresh				Ash Mineral		
	Poplar Mixed Forest				Deciduous		
27	Туре	0.66	27-3	56	Swamp	1.08	56-13
					SWDM2-2: Green		
	FOMM5-2: Dry-Fresh				Ash Mineral		
	Poplar Mixed Forest				Deciduous		
27	Туре	0.07	27-4	56	Swamp	0.54	56-14
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				SWDM2-2: Green	0.01	
	FOMM5-2: Dry-Fresh				Ash Mineral		
	Poplar Mixed Forest				Deciduous		
27	Type	0.23	27-5	56	Swamp	0.44	56-15
27	Турс	0.23	27-5	50	SWDM2-2: Green	0.44	50-15
	FOMM5-2: Dry-Fresh				Ash Mineral		
	·				Deciduous		
27	Poplar Mixed Forest	0.29	27-6	56		0.62	56-16
27	Туре	0.29	27-0	50	Swamp SWDM2-2: Green	0.62	20-10
	FOMME 2. Dry Frach				Ash Mineral		
	FOMM5-2: Dry-Fresh						
27	Poplar Mixed Forest	0.02	27.7	FC	Deciduous	1 00	FC 17
27	Туре	0.62	27-7	56	Swamp	1.99	56-17
					SWDM2-2: Green		
					Ash Mineral		
20		0.40	20.4	F 2	Deciduous	1.40	FC 40
28	MAM: Meadow Marsh	0.16	28-1	56	Swamp	1.16	56-18
					SWDM2-2: Green		
					Ash Mineral		
					Deciduous	a ==	
28	MAM: Meadow Marsh	0.07	28-2	56	Swamp	0.75	56-19
					SWDM2-2: Green		
					Ash Mineral		
					Deciduous	_	
3	CVC_4: Extraction	1.59	3-1	56	Swamp	0.24	56-2
					SWDM2-2: Green		
					Ash Mineral		
					Deciduous		
3	CVC_4: Extraction	3.39	3-2	56	Swamp	0.94	56-20

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
					SWDM2-2: Green		
					Ash Mineral		
					Deciduous		
3	CVC_4: Extraction	0.19	3-3	56	Swamp	0.52	56-21
					SWDM2-2: Green		
					Ash Mineral		
					Deciduous		
3	CVC_4: Extraction	0.40	3-4	56	Swamp	0.81	56-22
	NANANAL 2. Cattail				SWDM2-2: Green Ash Mineral		
	MAMM1-2: Cattail Graminoid Mineral				Deciduous		
30	Meadow Marsh Type	0.22	30-1	56	Swamp	0.48	56-23
		0.22	50-1	50	SWDM2-2: Green	0.48	50-25
	MAMM1-2: Cattail				Ash Mineral		
	Graminoid Mineral				Deciduous		
30	Meadow Marsh Type	0.64	30-2	56	Swamp	0.28	56-3
					SWDM2-2: Green		
	MAMM1-2: Cattail				Ash Mineral		
	Graminoid Mineral				Deciduous		
30	Meadow Marsh Type	2.00	30-3	56	Swamp	2.51	56-4
					SWDM2-2: Green		
	MAMM1-2: Cattail				Ash Mineral		
	Graminoid Mineral				Deciduous		
30	Meadow Marsh Type	0.28	30-4	56	Swamp	3.35	56-5
					SWDM2-2: Green		
	MAMM1-2: Cattail				Ash Mineral		
20	Graminoid Mineral	1 1 1	30-5	ГС	Deciduous	2.26	56-6
30	Meadow Marsh Type	1.11	30-5	56	Swamp SWDM2-2: Green	2.26	0-00
	MAMM1-2: Cattail				Ash Mineral		
	Graminoid Mineral				Deciduous		
30	Meadow Marsh Type	0.47	30-6	56	Swamp	0.70	56-7
	/		-		SWDM2-2: Green		
	MAMM1-2: Cattail				Ash Mineral		
	Graminoid Mineral				Deciduous		
30	Meadow Marsh Type	1.13	30-7	56	Swamp	0.97	56-8
					SWDM2-2: Green		
	MAMM1-2: Cattail				Ash Mineral		
	Graminoid Mineral				Deciduous		
30	Meadow Marsh Type	0.28	30-8	56	Swamp	0.18	56-9
					SWDM3-3:		
					Swamp Maple		
	MAMM1-3: Reed				Mineral		
21	Canary Grass Mineral	0.00	21.1	F 7	Deciduous	0.46	E7 1
31	Meadow Marsh	0.06	31-1	57	Swamp	0.46	57-1

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
					SWDM3-3:		
					Swamp Maple		
	MAMM1-3: Reed				Mineral		
	Canary Grass Mineral				Deciduous		
31	Meadow Marsh	0.30	31-10	57	Swamp	0.70	57-2
					SWDM3-3:		
					Swamp Maple		
	MAMM1-3: Reed				Mineral		
31	Canary Grass Mineral Meadow Marsh	5.13	31-2	57	Deciduous	1.38	57-3
- 21		5.15	51-2	57	Swamp SWDM3-3:	1.50	57-5
					Swamp Maple		
	MAMM1-3: Reed				Mineral		
	Canary Grass Mineral				Deciduous		
31	Meadow Marsh	0.22	31-3	57	Swamp	2.63	57-4
		0.22	515		SWDM3-3:	2.00	
					Swamp Maple		
	MAMM1-3: Reed				Mineral		
	Canary Grass Mineral				Deciduous		
31	, Meadow Marsh	0.26	31-4	57	Swamp	0.23	57-5
					SWDM3-3:		
					Swamp Maple		
	MAMM1-3: Reed				Mineral		
	Canary Grass Mineral				Deciduous		
31	Meadow Marsh	0.15	31-5	57	Swamp	1.26	57-6
					SWDM4-5:		
	MAMM1-3: Reed				Poplar Mineral		
	Canary Grass Mineral				Deciduous		
31	Meadow Marsh	0.24	31-6	58	Swamp	5.60	58-1
					SWDM4-5:		
	MAMM1-3: Reed				Poplar Mineral		
24	Canary Grass Mineral		24 7		Deciduous		50.0
31	Meadow Marsh	0.08	31-7	58	Swamp	4.21	58-2
	MAMM1-3: Reed				SWDM4: Mineral		
21	Canary Grass Mineral	0.44	21.0	F0	Deciduous	1 72	FO 1
31	Meadow Marsh	0.41	31-8	59	Swamp Ecosite	1.73	59-1
	MAMM1-9: Narrow-				SWDM4: Mineral		
27	leaved Sedge Graminoid Mineral Meadow Marsh	0.16	27 1	F0	Deciduous	1 1 -	59-2
32	MAMM1-9: Narrow-	0.16	32-1	59	Swamp Ecosite SWDM4: Mineral	1.15	33-2
	leaved Sedge Graminoid				Deciduous		
32	Mineral Meadow Marsh	0.76	32-2	59	Swamp Ecosite	0.30	59-3
52		0.70	52 2		SWDM4: Mineral	0.50	555
	MAMM3: Mixed				Deciduous		
33	Mineral Meadow Marsh	0.10	33-1	59	Swamp Ecosite	0.14	59-4
		0.10	22-T	23	Swamp Ecosite	0.14	JJ-4

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	MAMO1-2: Cattail						
	Graminoid Organic				FOC: Coniferous		
34	Meadow Marsh	0.97	34-1	6	Forest	0.04	6-1
					SWDO2-3:		
					Swamp Maple		
	MAMO1-3: Reed Canary				Organic		
	Grass Graminoid				Deciduous		
35	Organic Meadow Marsh	0.48	35-1	60	Swamp	6.53	60-1
					SWDO2-3:		
					Swamp Maple		
	MAMO1-3: Reed Canary				Organic		
	Grass Graminoid				Deciduous		
35	Organic Meadow Marsh	0.05	35-2	60	Swamp	16.86	60-2
					SWDO2-3:		
					Swamp Maple		
	MAMO1-3: Reed Canary				Organic		
	Grass Graminoid				Deciduous		
35	Organic Meadow Marsh	0.38	35-3	60	Swamp	0.23	60-3
					SWDO2-3:		
					Swamp Maple		
					Organic		
	MAMR3: Bedrock				Deciduous		
36	Meadow Marsh	0.33	36-1	60	Swamp	16.77	60-4
					SWDO2-3:		
					Swamp Maple		
					Organic		
	MASO1-1: Cattail				Deciduous		
37	Organic Shallow Marsh	30.83	37-1	60	Swamp	0.41	60-5
					SWDO2-3:		
					Swamp Maple		
					Organic		
	MASO1-1: Cattail				Deciduous		
37	Organic Shallow Marsh	8.42	37-2	60	Swamp	2.78	60-6
					SWDO2-3:		
					Swamp Maple		
					Organic		
	MASO1-1: Cattail				Deciduous		
37	Organic Shallow Marsh	0.79	37-3	60	Swamp	0.43	60-7
					SWTM3: Willow		
					Mineral		
	MASO1-1: Cattail				Deciduous		
37	Organic Shallow Marsh	0.35	37-4	61	Thicket Swamp	1.86	61-1

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ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
					SWTM3: Willow		
					Mineral		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	1.01	40-13	61	Thicket Swamp	0.28	61-4
					SWTM3: Willow		
					Mineral		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	0.70	40-14	61	Thicket Swamp	0.47	61-5
					SWTM3: Willow		
					Mineral		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	0.06	40-2	61	Thicket Swamp	0.83	61-6
					SWTM3: Willow		
					Mineral		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	0.28	40-3	61	Thicket Swamp	0.08	61-7
					SWTM3: Willow		
					Mineral		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	0.71	40-4	61	Thicket Swamp	0.92	61-8
					SWTM3: Willow		
					Mineral		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	0.13	40-5	61	Thicket Swamp	0.75	61-9
					SWTO2: Willow		
					Organic		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	0.36	40-6	62	Thicket Swamp	1.31	62-1
					SWTO2: Willow		
					Organic		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	0.47	40-8	62	Thicket Swamp	1.04	62-2
					SWTO2: Willow		
					Organic		
	MEMM3: Dry-Fresh				Deciduous		
40	Mixed Meadow Ecosite	1.09	40-9	62	Thicket Swamp	0.11	62-3
					SWTO2: Willow		
					Organic		
	MEMM4: Fresh-moist				Deciduous		
41	Mixed Meadow Ecosite	1.01	41-1	62	Thicket Swamp	0.22	62-4
					SWTO5: Organic		
	MEMM4: Fresh-moist				Deciduous		
41	Mixed Meadow Ecosite	1.49	41-10	63	Thicket Swamp	0.50	63-1

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
					TAGM1:		
	MEMM4: Fresh-moist				Coniferous		
41	Mixed Meadow Ecosite	0.21	41-12	64	Plantation	1.21	64-1
	MEMM4: Fresh-moist				TAGM4: Treed		
41	Mixed Meadow Ecosite	0.10	41-2	65	Pasture	4.98	65-1
	MEMM4: Fresh-moist			6.5	TAGM4: Treed		6 5 0
41	Mixed Meadow Ecosite	0.09	41-3	65	Pasture	3.24	65-2
41	MEMM4: Fresh-moist Mixed Meadow Ecosite	0.88	41-4				
41	MEMM4: Fresh-moist	0.88	41-4		TAGM4: Treed		
41	Mixed Meadow Ecosite	0.48	41-5	65	Pasture	1.92	65-4
41	MEMM4: Fresh-moist	0.40	41-2	05	TAGM4: Treed	1.52	05-4
41	Mixed Meadow Ecosite	1.07	41-6	65	Pasture	0.62	65-5
	MEMM4: Fresh-moist	1.07	110	03	TAGM5:	0.02	
41	Mixed Meadow Ecosite	0.67	41-7	66	Hedgerow	0.06	66-1
	MEMM4: Fresh-moist				TAGM5:		
41	Mixed Meadow Ecosite	0.46	41-8	66	Hedgerow	0.06	66-10
	MEMM4: Fresh-moist				TAGM5:		
41	Mixed Meadow Ecosite	0.37	41-9	66	Hedgerow	0.07	66-11
	MEMR2: Dry-fresh Non-						
	calcareous Bedrock				TAGM5:		
42	Mixed Meadow Ecosite	0.87	42-1	66	Hedgerow	0.06	66-12
	MEMR2: Dry-fresh Non-						
	calcareous Bedrock				TAGM5:		
42	Mixed Meadow Ecosite	0.62	42-2	66	Hedgerow	0.05	66-13
	MEMR2: Dry-fresh Non-				TACNAL		
42	calcareous Bedrock Mixed Meadow Ecosite	0.42	42-3	66	TAGM5:	0.04	66-14
42	MEMR2: Dry-fresh Non-	0.42	42-5	00	Hedgerow	0.04	00-14
	calcareous Bedrock				TAGM5:		
42	Mixed Meadow Ecosite	6.91	42-4	66	Hedgerow	0.03	66-15
	MEMR2: Dry-fresh Non-	0.01	·- ·				
	calcareous Bedrock				TAGM5:		
42	Mixed Meadow Ecosite	0.46	42-5	66	Hedgerow	0.09	66-16
	MEMR2: Dry-fresh Non-				-		
	calcareous Bedrock				TAGM5:		
42	Mixed Meadow Ecosite	0.13	42-6	66	Hedgerow	0.03	66-17
	MEMR2: Dry-fresh Non-						
	calcareous Bedrock				TAGM5:		
42	Mixed Meadow Ecosite	1.91	42-7	66	Hedgerow	0.04	66-18
	MEMR2: Dry-fresh Non-						
	calcareous Bedrock		42.0		TAGM5:		66.40
42	Mixed Meadow Ecosite	6.64	42-8	66	Hedgerow	0.02	66-19
10	OAGM1: Annual Cover	0 00	12 1	66	TAGM5:	0.06	66.2
43	Сгор	0.89	43-1	66	Hedgerow	0.06	66-2

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	OAGM1: Annual Cover				TAGM5:		
43	Crop	7.26	43-14	66	Hedgerow	0.04	66-20
	OAGM1: Annual Cover				TAGM5:		
43	Crop	11.74	43-15	66	Hedgerow	0.03	66-21
	OAGM1: Annual Cover				TAGM5:		
43	Crop	2.25	43-16	66	Hedgerow	0.04	66-22
	OAGM1: Annual Cover				TAGM5:		
43	Crop	4.13	43-17	66	Hedgerow	0.10	66-23
	OAGM1: Annual Cover				TAGM5:		
43	Crop	2.15	43-18	66	Hedgerow	0.07	66-24
	OAGM1: Annual Cover				TAGM5:		
43	Crop	2.10	43-19	66	Hedgerow	0.08	66-25
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.38	43-2	66	Hedgerow	0.21	66-26
	OAGM1: Annual Cover				TAGM5:		
43	Crop	1.07	43-20	66	Hedgerow	0.06	66-27
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.69	43-22	66	Hedgerow	0.06	66-28
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.89	43-23	66	Hedgerow	1.42	66-29
	OAGM1: Annual Cover				TAGM5:		
43	Crop	1.14	43-24	66	Hedgerow	0.04	66-3
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.43	43-25	66	Hedgerow	0.75	66-30
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.17	43-26	66	Hedgerow	0.06	66-31
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.55	43-27	66	Hedgerow	0.06	66-32
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.30	43-28	66	Hedgerow	0.09	66-33
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.35	43-29	66	Hedgerow	0.03	66-34
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.74	43-3	66	Hedgerow	0.04	66-35
	OAGM1: Annual Cover				TAGM5:		
43	Crop	5.53	43-30	66	Hedgerow	0.07	66-36
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.32	43-31	66	Hedgerow	0.04	66-37
	OAGM1: Annual Cover				TAGM5:		
43	Crop	2.37	43-32	66	Hedgerow	0.06	66-38
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.75	43-4	66	Hedgerow	0.04	66-4
	OAGM1: Annual Cover				TAGM5:		
43	Crop	0.78	43-5	66	Hedgerow	0.21	66-44

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	OAGM1: Annual Cover				TAGM5:		
43	Crop	4.38	43-6	66	Hedgerow	1.20	66-45
	OAGM1: Annual Cover				TAGM5:		
43	Crop	5.70	43-7	66	Hedgerow	0.41	66-46
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	9.27	44-1	66	Hedgerow	0.70	66-47
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	1.53	44-10	66	Hedgerow	0.19	66-48
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	2.04	44-11	66	Hedgerow	0.08	66-49
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.35	44-12	66	Hedgerow	0.04	66-5
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	2.61	44-13	66	Hedgerow	0.04	66-50
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	1.18	44-14	66	Hedgerow	0.09	66-51
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.82	44-15	66	Hedgerow	0.34	66-52
	OAGM2: Perennial	0.01			TAGM5:	0.01	
44	Cover Crop	0.56	44-16	66	Hedgerow	0.27	66-53
	OAGM2: Perennial				TAGM5:	0.27	
44	Cover Crop	0.66	44-17	66	Hedgerow	1.75	66-54
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.73	44-18	66	Hedgerow	0.16	66-55
	OAGM2: Perennial	0.75			TAGM5:	0.10	00.00
44	Cover Crop	0.59	44-19	66	Hedgerow	2.21	66-56
	OAGM2: Perennial	0.00			TAGM5:		00.00
44	Cover Crop	3.91	44-2	66	Hedgerow	0.12	66-57
	OAGM2: Perennial	5151			TAGM5:	0.12	00.07
44	Cover Crop	0.56	44-20	66	Hedgerow	0.93	66-58
	OAGM2: Perennial	0.50			TAGM5:	0.55	00.00
44	Cover Crop	2.62	44-21	66	Hedgerow	0.85	66-59
	OAGM2: Perennial	2.02			TAGM5:	0.05	00.00
44	Cover Crop	0.27	44-22	66	Hedgerow	0.05	66-6
	OAGM2: Perennial	0.27			TAGM5:	0.05	000
44	Cover Crop	1.34	44-23	66	Hedgerow	0.20	66-60
	OAGM2: Perennial	1.54	25	00	TAGM5:	0.20	00.00
44	Cover Crop	0.11	44-24	66	Hedgerow	0.04	66-61
	OAGM2: Perennial	0.11	r + 6-	00	TAGM5:	0.04	00.01
44	Cover Crop	0.27	44-25	66	Hedgerow	0.48	66-62
-+4	OAGM2: Perennial	0.27	++-23	00	TAGM5:	0.40	00-02
44	Cover Crop	1.01	44-26	66	Hedgerow	0.03	66-63
- 44	OAGM2: Perennial	1.01	44-20	00	TAGM5:	0.03	00-03
	Cover Crop	1.94	44-27	66	Hedgerow	0.43	66-64

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.96	44-28	66	Hedgerow	0.03	66-65
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.94	44-29	66	Hedgerow	0.31	66-66
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	1.06	44-3	66	Hedgerow	0.10	66-67
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.53	44-30	66	Hedgerow	0.51	66-68
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.17	44-31	66	Hedgerow	0.06	66-7
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.23	44-32	66	Hedgerow	0.05	66-8
	OAGM2: Perennial				TAGM5:		
44	Cover Crop	0.59	44-33	66	Hedgerow	0.05	66-9
					THCM1-1: Dry -		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.57	44-34	67	Thicket	0.39	67-1
					THCM1-1: Dry -		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.50	44-35	67	Thicket	0.33	67-2
		0.50		0,	THCM1-1: Dry -	0.00	0, 2
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	1.29	44-36	67	Thicket	5.57	67-3
					THCM1-1: Dry -		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	2.46	44-37	67	Thicket	0.91	67-4
					THDM2-7: Prickly		
					Ash Deciduous		
	OAGM2: Perennial				Shrub Thicket		
44	Cover Crop	1.06	44-38	68	Туре	0.87	68-1
					THDM2: Dry-		
					fresh Deciduous		
	OAGM2: Perennial				Shrub Thicket		
44	Cover Crop	0.60	44-39	69	Ecosite	0.49	69-1
	OAGM2: Perennial						
44	Cover Crop	3.34	44-4				
					THDM2: Dry-		
					fresh Deciduous		
	OAGM2: Perennial				Shrub Thicket		
44	Cover Crop	1.39	44-40	69	Ecosite	0.37	69-3

ID*	ELC Community	Area (ha)	ELC Unique ID ^	ID *	ELC Community	Area (ha)	ELC Unique ID ^
					THDM2: Dry-		
					fresh Deciduous		
	OAGM2: Perennial				Shrub Thicket		
44	Cover Crop	0.66	44-41	69	Ecosite	0.51	69-4
					THDM2: Dry-		
					fresh Deciduous		
	OAGM2: Perennial				Shrub Thicket		
44	Cover Crop	0.60	44-42	69	Ecosite	0.94	69-5
					THDM2: Dry-		
					fresh Deciduous		
	OAGM2: Perennial				Shrub Thicket		60 G
44	Cover Crop	1.92	44-43	69	Ecosite	0.23	69-6
					FOCM2-1: Dry-		
					fresh Red Cedar		
	OAGM2: Perennial	1 50		-	Coniferous Forest	1.05	7.4
44	Cover Crop	1.59	44-44	7	Туре	1.95	7-1
					THDM5-1: Gray		
	OAGM2: Perennial				Dogwood Deciduous		
44		1 00	44-45	70	Thicket	0.25	70-1
44	Cover Crop	1.00	44-45	70		0.25	70-1
					THDM5-1: Gray		
	OAGM2: Perennial				Dogwood Deciduous		
44	Cover Crop	0.59	44-46	70	Thicket	0.23	70-2
44		0.39	44-40	70	WOCM1-1: Dry-	0.25	70-2
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	1.18	44-47	71	Woodland	0.06	71-1
		1.10	,	, 7	WOCM1-1: Dry-	0.00	,
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.95	44-48	71	Woodland	0.77	71-10
			· ·	· · · · ·	WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.32	44-49	71	Woodland	1.94	71-11
	OAGM2: Perennial						
44	Cover Crop	8.06	44-50				
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	1.10	44-50	71	Woodland	0.76	71-13

		(ha)	ID ^	ID *	ELC Community	(ha)	ELC Unique ID ^
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.60	44-51	71	Woodland	4.48	71-14
	·				WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	1.43	44-52	71	Woodland	0.99	71-15
					WOCM1-1: Dry-		
					, Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	0.53	44-53	71	Woodland	3.84	71-16
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	1.92	44-54	71	Woodland	1.07	71-17
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	3.44	44-6	71	Woodland	6.05	71-18
		3.1.1		, 1	WOCM1-1: Dry-	0.00	/1 10
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	0.92	44-66	71	Woodland	0.46	71-19
		0.52	1100	71	WOCM1-1: Dry-	0.10	71 15
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	1.24	44-67	71	Woodland	2.53	71-2
		1.2.1	1107	, 1	WOCM1-1: Dry-	2.33	, ± 2
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	3.52	44-68	71	Woodland	5.67	71-20
		5.52		, +	WOCM1-1: Dry-	0.07	
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	5.35	44-69	71	Woodland	0.43	71-21
		5.55		, ,	WOCM1-1: Dry-	0.45	·
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	8.97	44-7	71	Woodland	2.34	71-22
-++		0.97		/ 1	WOCM1-1: Dry-	2.54	, 1 22
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
	Cover Crop	8.26	44-70	71	Woodland	1.06	71-23

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					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.17	44-71	71	Woodland	0.37	71-24
	·				WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	3.68	44-72	71	Woodland	1.04	71-25
					WOCM1-1: Dry-		
					, Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.73	44-73	71	Woodland	1.41	71-26
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	1.39	44-74	71	Woodland	0.30	71-27
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	1.02	44-75	71	Woodland	0.30	71-28
		1.02		, -	WOCM1-1: Dry-	0.00	/ 1 20
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.55	44-76	71	Woodland	0.13	71-29
		0.55	1170	71	WOCM1-1: Dry-	0.13	7125
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.61	44-77	71	Woodland	0.54	71-3
		0.01	,	, -	WOCM1-1: Dry-	0.01	710
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.61	44-78	71	Woodland	0.91	71-30
		0.01			WOCM1-1: Dry-	0.01	
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.68	44-79	71	Woodland	0.97	71-31
		0.00	,5	, ,	WOCM1-1: Dry-	0.57	, _ , _ ,
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	6.15	44-8	71	Woodland	0.12	71-32
		0.13		/1	WOCM1-1: Dry-	0.12	, 1 32
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.22	44-83	71	Woodland	0.15	71-33

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					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.13	44-84	71	Woodland	0.06	71-34
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.90	44-85	71	Woodland	0.30	71-35
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.85	44-86	71	Woodland	2.59	71-36
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.86	44-87	71	Woodland	1.68	71-37
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.52	44-88	71	Woodland	0.41	71-38
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.35	44-89	71	Woodland	0.16	71-39
					WOCM1-1: Dry-		
					Fresh Red Cedar		
	OAGM2: Perennial	1.04			Coniferous	0.55	74.4
44	Cover Crop	1.81	44-9	71	Woodland	0.55	71-4
					WOCM1-1: Dry-		
	OACM2: Devenue				Fresh Red Cedar		
	OAGM2: Perennial	0.24	44.00	71	Coniferous Woodland	0.42	71 40
44	Cover Crop	0.24	44-90	/1		0.43	71-40
					WOCM1-1: Dry- Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.83	44-91	71	Woodland	0.01	71-41
- 44		0.05	-++-JT	/1	WOCM1-1: Dry-	0.01	/ ⊥ -+⊥
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.49	44-92	71	Woodland	0.49	71-42
		0.75	11.52	, ,	WOCM1-1: Dry-	0.45	, 1 12
					Fresh Red Cedar		
	OAGM2: Perennial				Coniferous		
44	Cover Crop	0.62	44-93	71	Woodland	0.87	71-43

DAGM2: Perennial Cover Crop	0.47			WOCM1-1: Dry-		
	0.47					
	0.47			Fresh Red Cedar		
Cover Crop	0 47			Coniferous		
	0.47	44-94	71	Woodland	0.64	71-44
				WOCM1-1: Dry-		
				Fresh Red Cedar		
DAGM2: Perennial				Coniferous		
Cover Crop	0.46	44-95	71	Woodland	0.15	71-45
				WOCM1-1: Dry-		
				, Fresh Red Cedar		
DAGM2: Perennial				Coniferous		
	0.74	44-96	71		0.56	71-46
	-					
				· ·		
AGM2: Perennial						
	1.64	44-97	71		0.25	71-47
					0.120	
AGM4: Open Pasture	0.86	45-1	71		0 39	71-48
	0.00	13 1	, 7		0.55	71 10
				· ·		
NGMA: Open Pasture	0.05	45-10	71		1 85	71-49
Admit. Open rastare	0.05	45-10	/1		1.05	71-45
AGM4: Open Pasture	2 21	45-11	71		2 90	71-5
Monte Open i astare	2.21	+5 11	71		2.50	715
				· ·		
AGM4: Open Pasture	0.27	45-12	71		0.40	71-50
Monte Open i astare	0.27	+5 12	71		0.40	71 30
				· ·		
NGMA: Open Pasture	0 17	15-13	71		2 75	71-6
	0.17		/1		2.75	110
				· ·		
AGMA: Open Pasture	0.21	15-11	71		0.05	71-7
Adivita. Open rasiure	0.51	42-14	/1		0.03	/ 1-/
MGMA: Open Pasture	056	15-15	71		1 7/	71-8
		DAGM2: Perennial over Crop0.74DAGM2: Perennial over Crop1.64DAGM2: Perennial over Crop1.64DAGM4: Open Pasture0.86DAGM4: Open Pasture0.05DAGM4: Open Pasture2.21DAGM4: Open Pasture0.27DAGM4: Open Pasture0.17DAGM4: Open Pasture0.17DAGM4: Open Pasture0.117	AGM2: Perennial over Crop 0.74 44-96 AGM2: Perennial over Crop 1.64 44-97 AGM4: Open Pasture 0.86 45-1 AGM4: Open Pasture 0.05 45-10 AGM4: Open Pasture 2.21 45-11 AGM4: Open Pasture 0.27 45-12 AGM4: Open Pasture 0.17 45-13 AGM4: Open Pasture 0.31 45-14	AGM2: Perennial 0.74 44-96 71 AGM2: Perennial 1.64 44-97 71 AGM2: Perennial 1.64 44-97 71 AGM4: Open Pasture 0.86 45-1 71 AGM4: Open Pasture 0.05 45-10 71 AGM4: Open Pasture 0.05 45-11 71 AGM4: Open Pasture 0.27 45-12 71 AGM4: Open Pasture 0.17 45-13 71 AGM4: Open Pasture 0.17 45-13 71 AGM4: Open Pasture 0.31 45-14 71	AGM2: Perennial over Crop 0.74 44-96 71 Woodland WOCM1-1: Dry- Fresh Red Cedar Coniferous WOCM1-1: Dry- Fresh Red Cedar Coniferous	AGM2: Perennial over Crop 0.74 44-96 71 Woodland 0.56 WOCM1-1: Dry- Fresh Red Cedar Coniferous 0.56 WOCM1-1: Dry- Fresh Red Cedar Coniferous 0.56 WOCM1-1: Dry- Fresh Red Cedar Coniferous 0.56 WOCM1-1: Dry- Fresh Red Cedar Coniferous 0.56 WOCM1-1: Dry- Fresh Red Cedar Coniferous 0.59 WOCM1-1: Dry- Fresh Red Cedar Coniferous 0.39 WOCM1-1: Dry- Fresh Red Cedar Coniferous 0.30 WOCM1-1: Dry-

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					WOCM1-1: Dry-		
					Fresh Red Cedar		
					Coniferous		
45	OAGM4: Open Pasture	1.06	45-16	71	Woodland	0.29	71-9
					FODR1-1: Dry -		
					Fresh Sugar		
					Maple -		
					Hardwood		
					Calcareous		
					Shallow		
					Deciduous Forest		
45	OAGM4: Open Pasture	1.28	45-17	72	Туре	0.69	72-1
					RBOA1-4:Dry –		
					Fresh Poverty		
					Grass Open Alvar		
45	OAGM4: Open Pasture	0.48	45-18	73	Meadow	2.58	73-1
					SAGM6: Shrub		
45	OAGM4: Open Pasture	0.59	45-19	74	Pasture	11.40	74-1
					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	4.77	45-2	8	Forest Ecosite	3.08	8-1
					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.29	45-20	8	Forest Ecosite	1.93	8-10
					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	1.05	45-21	8	Forest Ecosite	0.50	8-2
					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.94	45-22	8	Forest Ecosite	0.19	8-3
					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	2.21	45-23	8	Forest Ecosite	2.17	8-4
					FOCM2-2: Dry-		
					Fresh White		
			45.00	_	Cedar Coniferous		
45	OAGM4: Open Pasture	0.32	45-24	8	Forest Ecosite	0.61	8-5

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					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	1.54	45-26	8	Forest Ecosite	1.72	8-6
					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	2.11	45-27	8	Forest Ecosite	0.70	8-7
					FOCM2-2: Dry-		
					Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.84	45-28	8	Forest Ecosite	3.01	8-8
	•				FOCM2-2: Dry-		
					, Fresh White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.68	45-29	8	Forest Ecosite	0.57	8-9
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	2.55	45-3	9	Forest Type	0.97	9-1
	•				FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.83	45-30	9	Forest Type	0.56	9-10
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	1.57	45-31	9	Forest Type	0.25	9-11
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	13.08	45-32	9	Forest Type	0.20	9-12
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	1.41	45-33	9	Forest Type	0.48	9-13
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.63	45-34	9	Forest Type	1.94	9-14
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.79	45-35	9	Forest Type	2.60	9-15

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					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	5.83	45-36	9	Forest Type	0.08	9-16
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	17.38	45-37	9	Forest Type	1.14	9-17
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.48	45-38	9	Forest Type	0.27	9-18
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.60	45-39	9	Forest Type	0.37	9-19
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	2.18	45-4	9	Forest Type	0.71	9-2
	•				FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.45	45-40	9	Forest Type	0.21	9-20
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.38	45-41	9	Forest Type	0.54	9-21
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	1.02	45-42	9	Forest Type	2.79	9-22
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	0.50	45-43	9	Forest Type	0.80	9-23
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	8.24	45-44	9	Forest Type	0.50	9-24
					FOCM4-1: Fresh-		
					Moist White		
					Cedar Coniferous		
45	OAGM4: Open Pasture	2.95	45-45	9	Forest Type	0.74	9-25

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					FOCM4-1: Fresh-		
	FOCM4-1: Fresh-Moist				Moist White		
	White Cedar Coniferous				Cedar Coniferous		
9	Forest Type	1.19	9-4	9	Forest Type	0.37	9-26
					FOCM4-1: Fresh-		
	FOCM4-1: Fresh-Moist				Moist White		
	White Cedar Coniferous				Cedar Coniferous		
9	Forest Type	0.68	9-5	9	Forest Type	0.50	9-27
					FOCM4-1: Fresh-		
	FOCM4-1: Fresh-Moist				Moist White		
	White Cedar Coniferous				Cedar Coniferous		
9	Forest Type	1.11	9-6	9	Forest Type	0.09	9-28
					FOCM4-1: Fresh-		
	FOCM4-1: Fresh-Moist				Moist White		
	White Cedar Coniferous				Cedar Coniferous		
9	Forest Type	0.16	9-7	9	Forest Type	0.13	9-3
	FOCM4-1: Fresh-Moist						
	White Cedar Coniferous						
9	Forest Type	0.19	9-8				
	FOCM4-1: Fresh-Moist						
	White Cedar Coniferous						
9	Forest Type	0.80	9-9				

*Unique ELC Type (see Legend on Figure 4)

^ Unique ELC Polygon Identifier (see Figure 4a)

Appendix C

Species Lists





Table C1: Rare Plant Species List

			Conserva	ation Statu	IS			Infor	mation Sou	ce	
		National	Prov	vincial	ъ с	of					
Scientific Name	Common Name	SARA ¹	ESA, 2007 ²	SRank ³	Coefficient of Conservation	Coefficient of Wetness	NHIC ⁴	MNRF⁵	Previous Studies ⁶	Public Observations ⁷	Observed in Field
Draba reptens	Carolina Whitlow-grass/ Creeping Draba*			\$3	9	5			•		
Carex oligocarpa	Few-fruited Sedge*			S3	9	1		•			
Nuphar advena	Large Yellow Pond-lily*			S3	8	-5			•		
Juncus secundus	One-sided Rush*			S3	9	5		•			
Torreyochloa pallida var. pallida	Pale False Mannagrass*			S2	9	-5	•				
Myosurus minimus	Tiny Mousetail*			S2	8	3	•		•		

¹Species at Risk Act; ²Endangered Species Act; ³SRank Code (see below); ⁴MNRF Natural Heritage Information Centre Database; ⁵MNRF Species at Risk Online Mapping; ⁶Previous Studies as referenced in the NHA Records Review Report; ⁷Observations submitted by local landowners. • denotes occurrence record; --- denotes no information, no status or not applicable; * denotes Species of Conservation Concern.

Note that common species and Species at Risk listed as Threatened or Endangered on Ontario Regulation 230/08 are not included in this table. For all codes, please see overview following Table C2 below.

Table C2: Wildlife Species List

		Co	onservation Statu	S					Informati	on Source	•				<u></u>
Scientific Name	Common Name	National	Provi	ncial	NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶	Ontario Nature	Odonata Atlas [®]	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Observed in Field
		SARA ¹	ESA, 2007 ²	SRank ³		0		ō	ŏ	Bu				ō	0
BIRDS			1				1	1	1		1	1	1	1	
Empidonax alnorum	Alder Flycatcher			S5B		•									•
Botaurus lentiginosus	American Bittern			S4B		•									•
Corvus brachyrhynchos	American Crow			S5B		•									•
Carduelis tristis	American Goldfinch			S5B		•							•	•	•
Falco sparverius	American Kestrel			S4		•									•
Setophaga ruticilla	American Redstart			S5B		•									•
Turdus migratorius	American Robin			S5B		•							•	•	•
Scolopax minor	American Woodcock			S4B		•									•
Icterus galbula	Baltimore Oriole			S4B		•									•
Strix varia	Barred Owl			S5		•									•
Ceryle alcyon	Belted Kingfisher			S4B		•									•
Chlidonias niger	Black Tern*		SC	S3B	•	•					•				
Mniotilta varia	Black-and-white Warbler			S5B		•									•
Coccyzus erythropthalmus	Black-billed Cuckoo			S5B		•									•
Poecile atricapillus	Black-capped Chickadee			S5		•								•	•
Dendroica caerulescens	Black-throated Blue Warbler			S5B		•									•
Dendroica virens	Black-throated Green Warbler			S5B		•									•
Polioptila caerulea	Blue-gray Gnatcatcher			S4B		•									
Cyanocitta cristata	Blue Jay			S5		•							•	•	•
Anas discors	Blue-winged Teal			S4		•									
Vermivora pinus	Blue-winged Warbler			S4B		•									
Certhia americana	Brown Creeper			S5B		•									•
Toxostoma rufum	Brown Thrasher			S4B		•							•	•	•
Molothrus ater	Brown-headed Cowbird			S4B		•							•	•	•
Branta canadensis	Canada Goose			S5		•									•
Wilsonia canadensis	Canada Warbler*	THR	SC	S4B							•				
Bombycilla cedrorum	Cedar Waxwing			S5B		•									•
Dendroica pensylvanica	Chestnut-sided Warbler			S5B		•									•
Spizella passerina	Chipping Sparrow			S5B		•							•	•	•
Spizella pallida	Clay-coloured Sparrow			S4B		•									•

		Co	onservation Statu	IS				Informati	ion Source	e				σ
Scientific Name	Common Name	National SARA ¹	Prov <i>ESA, 2007</i> ²	incial SRank ³	NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶ Ontario Nature	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Observed in Field
Petrochelidon pyrrhonota	Cliff Swallow			S4B		•								
Gallinula chloropus	Common Gallinule			S4B		•								
Quiscalus quiscula	Common Grackle			S5B		•						•	•	•
Gavia immer	Common Loon			S5B, S5N		•								•
Chordeiles minor	Common Nighthawk*	THR	SC	S4B		•				•				•
Corvus corax	Common Raven			\$5		•								•
Gallinago gallinago	Common Snipe (Wilson's Snipe)			S5B, SZN		•								•
Geothlypis trichas	Common Yellowthroat			S5B		•								•
Junco hyemalis	Dark-eyed Junco			S5B								•	•	•
Picoides pubescens	Downy Woodpecker			S5		•							•	•
Sialia sialis	Eastern Bluebird			S5B		•								•
Tyrannus tyrannus	Eastern Kingbird			S4B		•								•
Sayornis phoebe	Eastern Phoebe			S5B		•						•	•	•
Otus asio	Eastern Screech-owl			S4		•								
Pipilo erythrophthalmus	Eastern Towhee			S4B		•						•	•	•
Contopus virens	Eastern Wood-pewee*		SC	S4B		•				•				•
Sturnus vulgaris	European Starling			SNA		•						•	•	•
Spizella pusilla	Field Sparrow			S4B		•								•
Anas strepera	Gadwall			S4B		•								
Vermivora chrysoptera	Golden-winged Warbler*	THR	SC	S4B		•				•				•
Ammodramus savannarum	Grasshopper Sparrow			S4B, SZN		•								٠
Dumetella carolinensis	Gray Catbird			S4B		•								•
Ardea herodias	Great Blue Heron			S4		•								•
Myiarchus crinitus	Great Crested Flycatcher			S4B		•								•
Bubo virginianus	Great Horned Owl			S4		•								
Aythya marila	Greater Scaup			S4							•			
Butorides virescens	Green Heron			S4B		•								
Anas crecca	Green-winged Teal			S4		•								
Picoides villosus	Hairy Woodpecker			S5		•						•	•	•
Catharus guttatus	Hermit Thrush			S5B		•								٠
Larus argentatus	Herring Gull			S5B,S5N							•			•
Lophodytes cucullatus	Hooded Merganser			S5B, S5N		•								

		Co	onservation Statu	IS					Informati	ion Source	9				p
Scientific Name	Common Name	National	Prov		NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶	Ontario Nature	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Observed in Field
		SARA ¹	ESA, 2007 ²	SRank ³											
Eremophila alpestris	Horned Lark			S5B, SZN		•									
Carpodacus mexicanus	House Finch			SNA		•									
Passer domesticus	House Sparrow			SNA		•									•
Troglodytes aedon	House Wren			S5B		•									•
Passerina cyanea	Indigo Bunting			S4B		•									•
Charadrius vociferus	Killdeer			S5B, S5N		•							•	•	•
Empidonax minimus	Least Flycatcher			S4B		•									•
Larus minutus	Little Gull			S1B								•			
Dendroica magnolia	Magnolia Warbler			S5B		•									•
Anas platyrhynchos	Mallard			S5		•									•
Cistothorus palustris	Marsh Wren			S4B		•									•
Zenaida macroura	Mourning Dove			S5		•								•	•
Vermivora ruficapilla	Nashville Warbler			S5B		•									•
Cardinalis cardinalis	Northern Cardinal			S5		•							•	•	•
Colaptes auratus	Northern Flicker			S4B		•									•
Circus cyaneus	Northern Harrier			S4B		•									٠
Mimus polyglottos	Northern Mockingbird			S4		•									٠
Anas acuta	Northern Pintail			S5		•									
Stelgidopteryx serripennis	Northern Rough-winged Swallow			S4B		•									
Seiurus noveboracensis	Northern Waterthrush			S5B		•									٠
Pandion haliaetus	Osprey			S5B		•									
Seiurus aurocapillus	Ovenbird			S4B		•									•
Podilymbus podiceps	Pied-billed Grebe			S4B, S4N		•									
Dryocopus pileatus	Pileated Woodpecker			S5		•							•	•	•
Carduelis pinus	Pine Siskin			S4B		•									
Dendroica pinus	Pine Warbler			S5B		•									
Carpodacus purpureus	Purple Finch			S4B		•							•	•	
Progne subis	Purple Martin			S4B		•									
Sitta canadensis	Red-breasted Nuthatch			S5		•									•
Melanerpes erythrocephalus	Red-headed Woodpecker*	THR	SC	S4B							•				•
Vireo olivaceus	Red-eyed Vireo			S5B		•									•
Buteo jamaicensis	Red-tailed Hawk			S5		•									•

		C	onservation Statu	IS				Informati	on Source	9				q
Scientific Name	Common Name	National SARA ¹	Provi <i>ESA, 2007</i> ²	incial SRank ³	NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶ Ontario Nature	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Observed in Field
Agelaius phoeniceus	Red-winged Blackbird			S4		•						•	•	•
Aythya collaris	Ring-necked Duck			S5		•								
Columba livia	Rock Dove			SNA		•								•
Pheucticus Iudovicianus	Rose-breasted Grosbeak			S4B		•						•	•	•
Archilochus colubris	Ruby-throated Hummingbird			S5B		•						•	•	•
Euphagus carolinus	Rusty Blackbird	SC		S4B							•			
Bonasa umbellus	Ruffed Grouse			S4		•								•
Passerculus sandwichensis	Savannah Sparrow			S4B		•								•
Piranga olivacea	Scarlet Tanager			S4B		•								•
Cistothorus platensis	Sedge Wren			S4B		•								
Accipiter striatus	Sharp-shinned Hawk			S5B, SZN		•								
Melospiza melodia	Song Sparrow			S5B		•						•	•	•
Porzana carolina	Sora			S4B, SZN		•								
Actitis macularia	Spotted Sandpiper			S5		•								
Melospiza georgiana	Swamp Sparrow			S5B		•								٠
Tachycineta bicolor	Tree Swallow			S4B		•								٠
Cathartes aura	Turkey Vulture			S5B		•								٠
Bartramia longicauda	Upland Sandpiper			S4B		•						•	•	٠
Catharus fuscenscens	Veery			S4B		•								٠
Pooecetes gramineus	Vesper Sparrow			S4B		•								٠
Rallus limicola	Virginia Rail			S5B		•								•
Vireo gilvus	Warbling Vireo			S5B		•								•
Sitta carolinensis	White-breasted Nuthatch			S5		•						•	•	•
Zonotrichia albicollis	White-throated Sparrow			S5B		•						•	•	
Meleagris gallopavo	Wild Turkey			S5		•								•
Empidonax traillii	Willow Flycatcher			S5B, SZN		•								•
Troglodytes troglodytes	Winter Wren			S5B		•								•
Aix sponsa	Wood Duck			S5		•								•
Hylocichla mustelina	Wood Thrush*		SC	S4B		•				•				•
Dendroica petechia	Yellow Warbler			S5B		•								•
Sphyrapicus varius	Yellow-bellied Sapsucker			S5B		•								•
Dendroica coronata	Yellow-rumped Warbler			S5B		•								

		Co	onservation Statu	S				Informat	ion Source	9				σ
Scientific Name	Common Name	National SARA ¹	Provi <i>ESA, 2007</i> ²	incial SRank ³	NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶	Olitario Nature 7 Odonata Atlas ⁸	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Observed in Field
Vireo flavifrons	Yellow-throated Vireo			S4B		•								
MAMMALS						1				1		1		
Castor canadensis	American Beaver			S5			•							•
Ursus americanus	American Black Bear			S5			•							•
Mustela vison	American Mink			S5			•							
Sorex hoyi	American Pygmy Shrew			\$4			•							
Eptesicus fuscus	Big Brown Bat			S5			•							
Lynx rufus	Bobcat			S4			•							
Lynx canadensis	Canadian Lynx			S5			•							
Sorex cinereus	Cinereus (Masked) Shrew			S5			•							
Ondatra zibethicus	Common Muskrat			S5			•							
Canis latrans	Coyote			S5			•						•	•
Peromyscus maniculatus	Deer Mouse			S 5			•							•
Tamias striatus	Eastern Chipmunk			S 5			•							•
Sylvilagus floridanus	Eastern Cottontail			S 5			•							•
Sciurus carolinensis	Eastern Gray Squirrel			S5			•							•
Mustela erminea	Ermine			S5			•							
Martes pennanti	Fisher			S5			•							
Parascalops breweri	Hairy-tailed Mole			S4			•							
Lasiurus cinereus	Hoary Bat			S4			•							
Mustela nivalis	Least Weasel			SU			•							
Mustela frenata	Long-tailed Weasel			S4			•							
Zapus hudsonius	Meadow Jumping Mouse			S5			•							
Microtus pennsylvanicus	Meadow Vole			S5			•							•
Alces americanus	Moose			S5			•							
Erethizon dorsatum	North American Porcupine			S5			•							•
Lontra canadensis	Northern River Otter			S5			•							
Blarina brevicauda	Northern Short-tailed Shrew			S5			•							
Procyon lotor	Raccoon			S5			•							•
Vulpes vulpes	Red Fox			S5			•							•
Tamiasciurus hudsonicus	Red Squirrel			S5			•							•
Lasionycteris noctivagans	Silver Haired Bat			S4			•							

		Сс	nservation Statu	IS		1	1	1	Informati	on Source		1	1	1	<u></u>
Scientific Name	Common Name	National	Prov	incial	NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶	Ontario Nature	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Observed in Field
		SARA ¹	ESA, 2007 ²	SRank ³		ō		ō	ŏ	Bu				ō	0
Sorex fumeus	Smoky Shrew			S5			•								
Lepus americanus	Snowshoe Hare			S5			•								
Glaucomys volans	Southern Flying Squirrel			S4			•								
Clethrionomys gapperi	Southern Red-backed Vole			S5			•								
Condylura cristata	Star-nosed Mole			S5			•								
Mephitis mephitis	Striped Skunk			S5			•								•
Didelphis virginiana	Virginia Opossum			S4			•								•
Peromyscus leucopus	White –footed Mouse			S5			•								
Odocoileus virginianus	White-tailed Deer			S5			•								•
Marmota monax	Woodchuck			S5			•								•
Napaeozapus insignis	Woodland Jumping Mouse			S5			•								
HERPETOFAUNA	1			1							1				
Rana catesbeiana	American Bullfrog			S4				•							•
Bufo americanus	American Toad			S5				•							•
Plestiodon fasciatus pop. 2	Common Five-lined Skink*	SC	SC	S3	•			•			•				
Chelydra serpentina	Common Snapping Turtle*	SC	SC	S4	•			•			•		•	•	•
Thamnophis sirtalis sirtalis	Eastern Gartersnake			S5				•			•				•
Lampropeltis triangulum	Eastern Milksnake			S4				•			•				•
Sternotherus odoratus	Eastern Musk Turtle*	THR	SC	S3							•				
Thamnophis sauritus septentrionalis	Eastern Ribbonsnake*	SC	SC	S3				•			•				
Hyla versicolor	Gray Treefrog			S5				•							•
Rana clamitans	Green Frog			S5				•							•
Chrysemys picta marginata	Midland Painted Turtle			S5				•						•	•
Rana pipiens	Northern Leopard Frog			S5				•							•
Graptemys geographica	Northern Map Turtle*	SC	SC	S3	•			•			•				
Storeria occipitomaculata occipitomaculata	Northern Red-bellied Snake			S5				•							
Nerodia sipedon sipedon	Northern Watersnake			S5				•							•
Rana palustris	Pickerel Frog			S4				•							•
Opheodrys vernalis	Smooth Greensnake			S4				•							
Pseudacris crucifer	Spring Peeper			S5				•							•
Rana sylvatica	Wood Frog			S5				•							•

		Co	onservation Statu	S					Informati	on Source	•				7
Scientific Name	Common Name	National	Provi		NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶	Ontario Nature	Odonata Atlas [®]	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Observed in Field
		SARA ¹	ESA, 2007 ²	SRank ³				0	0	8				0	
LEPIDOPTERA					1			1		1	1		1	1	
Vanessa virginiensis	American Lady			S5						•					
Speyeria aphrodite	Aphrodite Fritillary			S5						•					
Papilio polyxenes	Black Swallowtail			S5						•					
Lycaena hyllus	Bronze Copper			S5						•					
Pieris rapae	Cabbage White			SNA						•					
Papilio canadensis	Canadian Tiger Swallowtail			S5						•					
Colias philodice	Clouded Sulphur			S5						•					
Erynnis lucilius	Columbine Duskywing			S4						•					
Coenonympha tullia	Common Ringlet			\$5						•					
Amblyscirtes vialis	Common Roadside Skipper			S4						•					
Cercyonis pegala	Common Wood-Nymph			S5						•					
Anatrytone logan	Delaware Skipper			S4						•					
Erynnis icelus	Dreamy Duskywing			S5						•					
Polygonia comma	Eastern Comma			S5						•					
Cupido (Everes) comyntas	Eastern Tailed Blue			S5						•					
Thymelicus lineola	European Skipper			SNA						•					
Papilio cresphontes	Giant Swallowtail*			S3						•					
Polygonia progne	Gray Comma			S5						•					
Speyeria cybele	Great Spangled Fritillary			S5						•					
Polygonia faunus	Green Comma			S4						•					
Poanes homobok	Homobok Skipper			S5						•					
Hesperia sassacus	Indian Skipper			S4						•					
Callophrys gryneus	Juniper Hairstreak*			S2						•	•				
Erynnis juvenalis	Juvenal's Duskywing			S5						•					
Ancyloxypha numitor	Least Skipper			S5						•					
Megisto cymela	Little Wood-Satyr			S5						•					
Boloria bellona	Meadow Fritillary			S5						•					
Aglais milberti	Milbert's Tortoiseshell			S5						•					
Erynnis martialis	Mottled Duskywing*		END	S2							•				
Nymphalis antiopa	Mourning Cloak			S5						•					
Thorybes pylades	Northern Cloudywing			S5						•					

		C	onservation State	JS					Information	on Source					<u>र</u>
Scientific Name	Common Name	National	Prov	incial	NHIC ⁴	OBBA ⁵ Square s	Mammals ⁶	Ontario Nature	Odonata Atlas ⁸	Butterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public Observations ¹³	Cheenied in Eield
		SARA ¹	ESA, 2007 ²	SRank ³		0		ō	ŏ	Bu				ō	C
Phyciodes cocyta	Northern Crescent			S5						٠					
Colias eurytheme	Orange Sulphur			S5						•					
Vanessa cardui	Painted Lady			S5						•					
Polygonia interrogationis	Question Mark			S5						•					
Vanessa atalanta	Red Admiral			S5						•					
Glaucopsyche lygdamus	Silvery Blue			S5						•					
Limenitis archippus	Viceroy			S5						•					
Limenitis arthemis astyanax	White Admiral (Red-spotted Purple)			S5						•					
Danaus plexippus	Monarch*		SC	S2N, S4B						•	•				
Pieris oleracea	Mustard White			S4						•					
ODONATA		1	-	1	-	-		-	·				-		
Plathemis lydia	Common Whitetail			S5					•						
Leucorrhinia intacta	Dot-tailed Whiteface			S5					•						
Calopteryx maculata	Ebony Jewelwing			S5					•						
Ischnura verticalis	Eastern Forktail			S5					•						
Erythemis simplicicollis	Eastern Pondhawk			S5					•						
Enallagma ebrium	Marsh Bluet			S5					•						
Enallagma signatum	Orange Bluet			S4					•						
Argia moesta	Powdered Dancer			S5					•						
Epitheca princeps	Prince Baskettail			S5					•						
Enallagma antennatum	Rainbow Bluet			S4					•						
Enallagma geminatum	Skimming Bluet			S4					•						
Libellula incesta	Slaty Skimmer			S4					•						
Enallagma exsulans	Stream Bluet			S5					•						
Didymops transversa	Stream Cruiser			S4					•						
Libellula pulchella	Twelve-spotted Skimmer			S5					•						
Argia fumipennis violacea	Violet Dancer			S5					•						
Sympetrum obtrusum	White-faced Meadowhawk			S5					•						
Libellula luctuosa	Widow Skimmer			S5					•						

		Co	nservation Status			-			Informati	on Source	2				g
Scientific Name	Common Name	National	Provir	ncial	NHIC ⁴	BBA ⁵ Square s	Mammals ⁶	tario Nature	onata Atlas ⁸	tterfly Atlas ⁹	MNRF ¹⁰	IBA ¹¹	Previous Studies ¹²	Public servations ¹³	oserved in Fiel
		SARA ¹	ESA, 2007 ²	SRank ³	-	Ö		ő	Ö	Bu				оb	qO
MOLLUSCA															
Vertigo elatior	Tapered Vertigo*			S2S3	•										
Vertigo nylanderi	Deep-throat Vertigo			SH	•										
Vertigo paradoxa	Classification Uncertain*			S2S3	•										

¹Species at Risk Act; ²Endangered Species Act; ³SRank Code (see overview of codes below); ⁴MNRF NHIC Database; ⁵Ontario Breeding Bird Atlas; ⁶Dobbyn (1994);⁷Ontario Nature (2010) Ontario Reptile and Amphibian Atlas; ⁸Ontario Odonata Atlas; ⁹Toronto Entomologists Association (2013) Ontario Butterfly Atlas Online; ¹⁰MNRF Species at Risk Online Mapping, or MNRF Correspondence; ¹¹Important Bird Areas; ¹²Previous Studies (as referenced in the NHA Records Review Report); ¹³Observations submitted by local landowners. For all codes, please see **Appendix C2**. • denotes occurrence record and/or project location includes species range; ---- denotes no information, no status or not applicable; * denotes Species of Conservation Concern;

Note that some Species at Risk listed as Threatened or Endangered on Ontario Regulation 230/08 are not included in this table. For all codes, please see overview below.

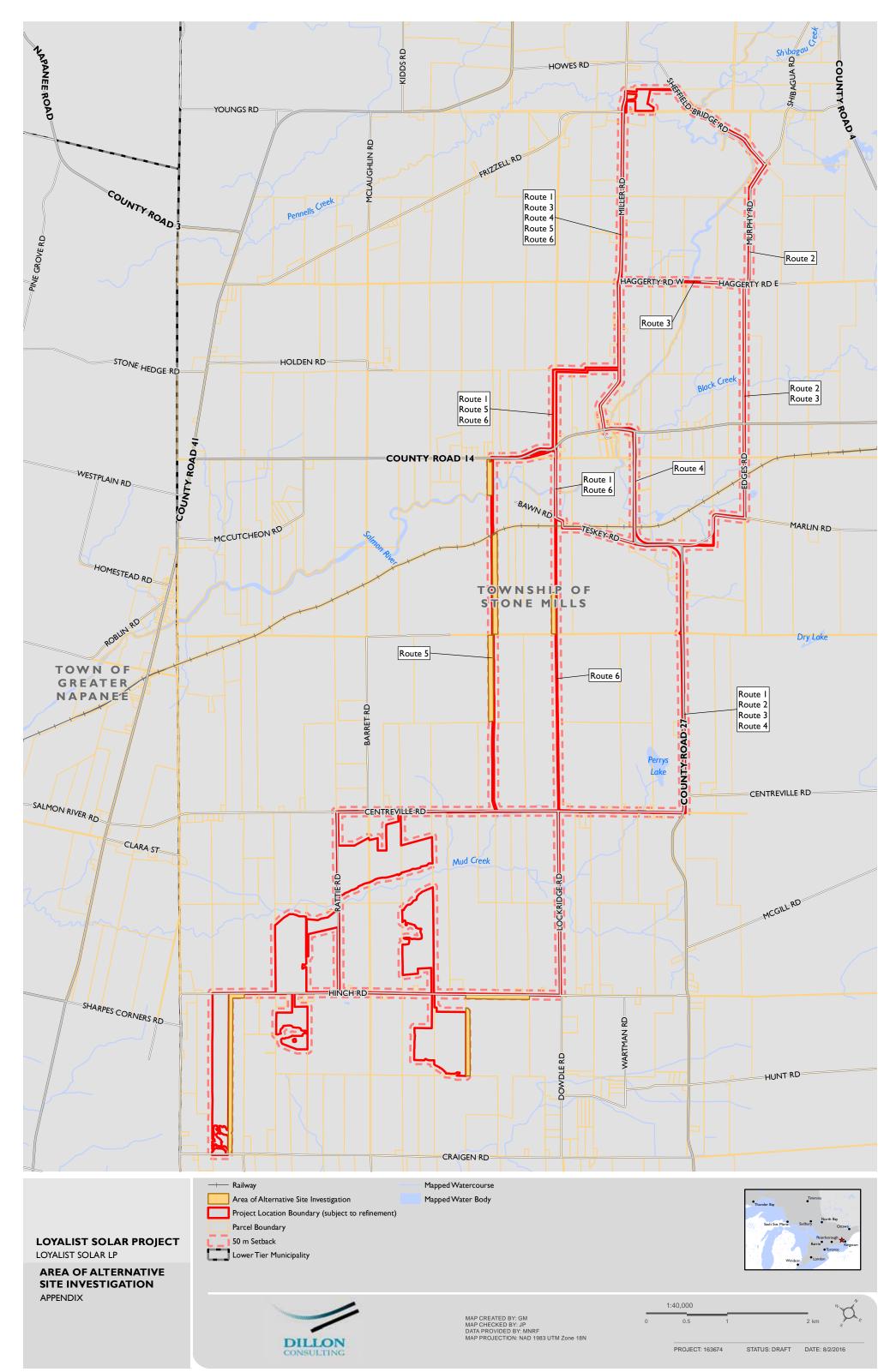
Appendix D

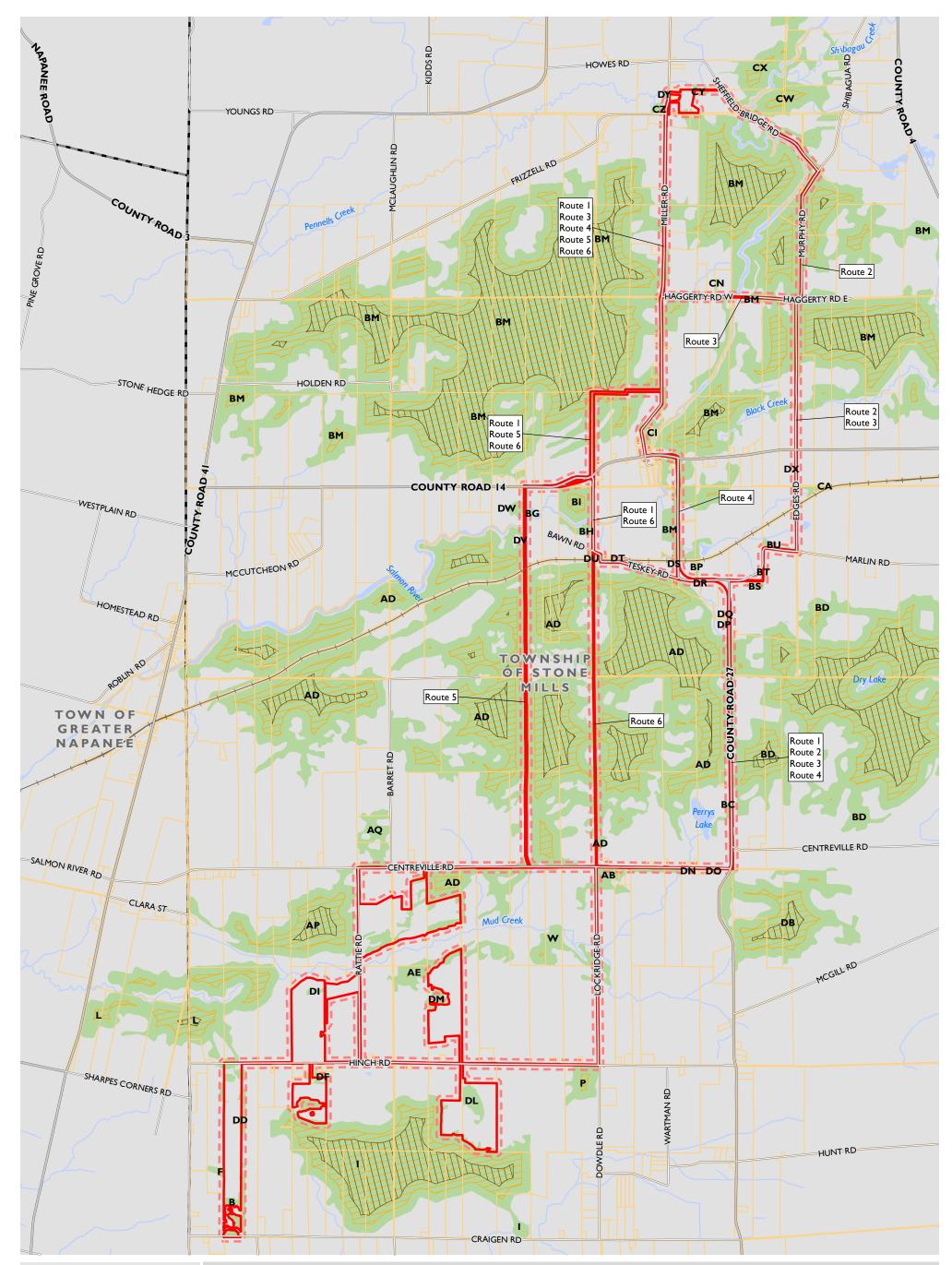
Supplementary Mapping





LOYALIST SOLAR LP Natural Heritage Assessment Site Investigation Report January 2017 – 16-3674







FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\Site Investigation\Appendix D Woodlands.mxd

Bats

Wildlife tree plots and snag density searches have been completed for the Project where property access was permitted. Based on these searches, it was determined that the density of wildlife trees does not meet the density for consideration as candidate significant bat maternity colony habitat (<10 snags per ha). See **Figure E1** for locations of density searches completed. Most areas surveyed were found to be dominated by coniferous tree species and generally lack quality cavity trees/ snags. The majority of woodlands surveyed were determined to be dense White Cedar (*Thuja occidenatlis*) forests with primarily small trees (Diameter at Breast Height (DBH) of <25 cm). For the limited number of deciduous woodland areas surveyed, the dominant tree species was Sugar Maple with occurrences of Silver Maple, Ash, Basswood, and Oak. **Table E1** below provides additional details on the woodlands within the Project area.

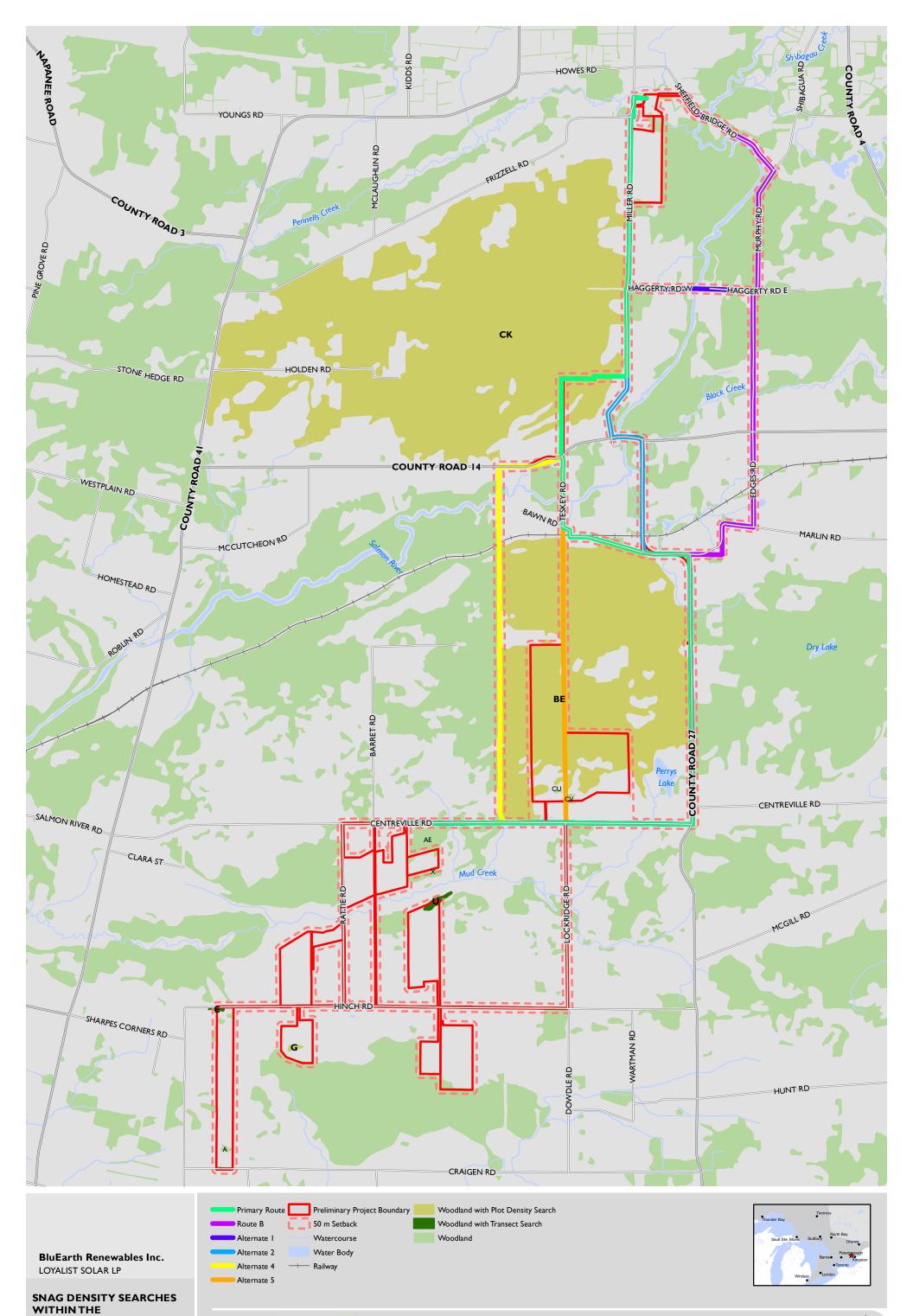
Woodland ID	Woodland Type	Description	Size (ha)	# of Plots	# of Cavity Trees Observed	Density (snags/ha)
E	Deciduous Forest	A young aged forest dominated by Hop Hornbeam (<i>Ostrya virginiana</i>) averaging 10-15 cm DBH. A couple larger Shagbark Hickory, Sugar Maple, Common Apple and Oak were also observed. The number of tree >25 DBH only equaled 23 specimens, four of which had cavities/crevices etc.	1.05	Transects walked throughout the forest, spaced approx. 20-25 m apart.	4	4/ha
G	Deciduous Swamp	Was assessed prior to the high level ELC. Primarily Silver Maple/Ash swamp.	1.08	10 pre-mapped random plots were established to assess the woodland; high level ELC was undertaken after and determined that Woodland G was part of the greater deciduous swamp complex (Hinch Swamp PSW). The greater swamp complex would require 35 plots to assess.	0	0/ha
AE	Deciduous Forest/ Coniferous Forest	Primarily a dense white cedar coniferous forest with a pocket of young sugar maple (1.15 ha) dominated forest closer to Centreville Road. Outside of the current developable area but was walked through and very few trees >25 cm DBH, mostly young maples, ironwood.	14.27	n/a	n/a	n/a

TABLE E1: CAVITY TREE DENSITY SURVEY SUMMARY

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Woodland ID	Woodland Type	Description	Size (ha)	# of Plots	# of Cavity Trees Observed	Density (snags/ha)
U	Coniferous Forest/ Deciduous Forest	Primarily a dense white cedar coniferous forest with a small pocket of mature sugar maple (0.18 ha) dominated forest. The small mature forest is just within the NE corner of the current developable area and was walked through using a grid pattern.	2.16	Transects walked throughout the forest, spaced approx. 20-25 m apart.	2	<1/ha
BE	Coniferous Forest/ Deciduous Forest/ Coniferous Woodland/ Mixed Forest	Mix of several ELC communities. The coniferous forest is comprised of dense White Cedar. The survey was focused on the large patch of deciduous forest (28 ha) that contained small inclusions of mixed forest. This deciduous forest site is primarily young Hop Hornbeam and maple with scattered larger trees of Maple, Basswood, and Ash.	586.6	30 pre-mapped random plots were established within the deciduous forest ecosite. A couple of smaller polygons of deciduous forest were walked through with transects but did not contain cavity trees, most trees were young 10-15 cm DBH with very few over 25 cm DBH.	7	9/ha
cv	Coniferous Forest	Dense White Cedar forest; property was walked prior to receiving protocol from MNRF Peterborough. Used 2011 protocol and 2015 ecoregion criteria which doesn't include FOC. Surveying White Cedar FOC for cavities is challenging due to the close proximity of trees and obstructions from branches. The interior of these communities are quite shaded, making it even more difficult to detect cavities in the canopy.	1.54	n/a	n/a	n/a
СК	Coniferous Forest/ Deciduous Forest/ Coniferous Woodland/ Mixed Forest/ Treed Rock Barren	Assessment carried out concurrently with high level ELC so plots were spaced out for the greater woodland community and not focused on individual ecosites. Majority of the t- line area +50 m is covered in dense White Cedar forest, coniferous woodland or treed rock barren. A linear ecosite of maple deciduous forest (3.23 ha) is primarily located in the southeastern portion of the larger woodland. This ecosite contained abundant young maples 10-15 cm DBH with few >25 cm DBH.	1045.81	35 pre-mapped random plots were placed throughout the greater woodland area but only two cavity trees were observed.	2	1/ha

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FILE LOCATION: I:\GIS\163674 - Loyalist Solar\mxd\SAR Memo\Figure 2 Snag Density Searches within the Loyalist Solar Project.mxd