

**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGISTRATION FOR 138 KV TRANSMISSION LINE IN THE
MONCTON INDUSTRIAL PARK, MONCTON, NEW BRUNSWICK**

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December 15, 2017

Appendix A **ADDITIONAL INFORMATION
(REQUIREMENTS OF NEW
BRUNSWICK EIA GUIDE)**

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THE PROPONENT

Name of Undertaking	Construction of a New 138 kV Transmission Line (1246) in the Moncton Industrial Park, in the City of Moncton, New Brunswick
Project Overview	Please refer to Section 1.2 of the EIA Registration Document
Purpose / Rationale / Need for Undertaking	Please refer to Section 1.4 of the EIA Registration Document
Project Location	The proposed Project is located in the Moncton Industrial Park in the City of Moncton, New Brunswick The Construction of the new transmission line begins at: Latitude: 46.083701 Longitude: -64.831155 The Construction of the new transmission line ends at: Latitude: 46.081647 Longitude: -64.837814 Parcel Identifiers (PIDs) of the Project are included in Table A.1. Please refer to Figure 2.1 of the EIA Registration Document for a site location map showing the location of the Project.
Siting Considerations	A description of the considerations that were taken in to account in choosing the Project location is provided in Section 2.3.
Physical Components and Dimensions of the Project	A description of the Project components and infrastructure is provided in Section 2.4 of the EIA Registration Document.
Construction Details	An overview of Project Construction activities is provided in Section 2.5.1 of the EIA Registration Document.
Operation and Maintenance Details	An overview of Project operation activities is provided in Section 2.5.2 of the EIA Registration Document.
Future Modifications, Extensions, or Abandonment	An overview of Project Decommissioning activities is provided in Section 2.5.3 of the EIA Registration Document.
Project-Related Documents	NB Power's Project Specific Environmental Management Plan (PSEMP) will be submitted to NBDELG under separate cover.

Description of the Existing Environment

The description of relevant features that are found within the Project location and surrounding areas that could potentially be affected by the Project are provided in Section 3.0, and within the descriptions of the specific VCs, found in Section 5.0 of the EIA Registration Document.

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Summary of Environmental Impacts

Potential environmental interactions, or “impacts,” of the various Project phases are provided in Section 5.0 of the EIA Registration Document.

Summary of Proposed Mitigation

Mitigation by design in relation to the potential Project-related environmental interactions is discussed in detail in Section 6.0 of the EIA Registration Document. These mitigation measures follow NB Power's Project Specific Environmental Management Plan (PSEMP), which will be submitted under separate.

Public Involvement

A brief summary of the public involvement activities planned as part of the Project is provided in Section 7.0 of the EIA Registration Document. The activities planned for the engagement of First Nations communities and groups is provided in Section 8.0.

Approval of the Undertaking

Permits, licenses, approvals, and other regulatory requirements and authorizations that may be required for the Project are discussed in Section 1.5 of the EIA Registration Document. A federal environmental assessment under the *Canadian Environmental Assessment Act 2012* is not required, as it is not a designated project.

Funding

Funding for the Project is being provided entirely by NB Power.

Signature



Signature

December 14, 2017

Date

Table A.1 Parcel Identifiers (PID) of Properties Crossed by the Transmission Line

1008135	1008267	70628359
1008085	00000003	1008044
70290564	70290572	1008648
1008051	Crown roads	

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Appendix B

**ENVIRONMENTAL ATTRIBUTES
ANALYSIS FOR A 138 KV
TRANSMISSION LINE IN THE
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	Centreline Crossings (Number, or Length in m or Area in ha)	Within 500 metres	Details
Total Length (All Segments)	557		PDA = 1.74 ha Terrestrial AA = 133.58 ha
Watercourses, Wetlands, and Waterbodies			
Watercourse Crossings (< 30m wide)	0	1	Tributary of Jonathon Creek
Watercourse Crossings (> 30m wide)	0	0	0
GeoNB Mapped Wetlands	0	2 (1.4ha)	
Stantec Desktop Interpreted Wetland	1 (0.5 ha)	2 (3.69 ha)	
Waterbodies	0	0	
Designated Lands/Public vs. Private Lands			
Crown Land	2	3	PDA = 0.723 ha LAA (500 m) = 18.77 ha
Private Land	8	143	PDA = 1.01 ha LAA (500 m) = 114.82 ha
Restricted Freehold Land	0	0	
First Nations Lands	0	0	Soegao First Nation ~ 7.4 km west
Military Base	0	0	
Municipal Areas	1	1	Moncton
Local Service District	0	0	
Existing Mining Claims	0	0	
Mining Agreements	0	0	
Protected Areas			
Protected Natural Areas	0	0	
Proposed Protected Natural Areas	0	0	

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	Centreline Crossings (Number, or Length in m or Area in ha)	Within 500 metres	Details
Provincial Parks	0	0	
Federal Protected Areas	0	0	
Protected Wellfields	0	0	
Wildlife Refuges and Management Areas	0	0	
Deer Wintering Areas	0	0	
Protected Watersheds	0	0	
Important Bird Area (IBA)	0	0	
Infrastructure			
Pipeline Crossings / Transmission Line Crossings	2	2	
Number of Road Crossings	3	14	PDA = Arsenault Court, Driscoll Crescent and Edinburgh Drive LAA (500 m) = Wheeler Boulevard (Route 15), St. George Boulevard, Loftus Street, Edinburgh Drive, English Drive, Rooney Crescent, Arsenault Court, Delong Drive, Driscoll Crescent, Chandler Crescent, Centennial Drive
Number of Railway Crossings	0	0	
Number of Trail Crossings	0	0	
Sensitive Areas/Species at Risk			
AC CDC Managed Areas	0	0	
Environmentally Significant Areas	0	0	
Fish Hatcheries	0	0	
AC CDC Fish Habitat	0	0	
Socioeconomic			
Pits/Quarries/Mines	0	0	

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	Centreline Crossings (Number, or Length in m or Area in ha)	Within 500 metres	Details
Educational Building	0	1	Bernice MacNaughton High School - ~ 340 m from PDA
Cemeteries	0	0	
Religious Building	0	0	Moncton Wesleyan Church ~ 137 m from LAA
Buildings	0	86	
Land Reserved for Residential Purposes	0	9.6 ha	This is a neighborhood at the eastern end of the LAA and the school property.
Towers	0	0	
Landfills	0	0	
Historic Sites	0	0	
Industrial Sites	0	0	
Land Reserved for Industrial Purposes	1.47 ha	77.2 ha	Area is zoned industrial but consists of road RoWs and industrial park properties, which may contain some forest habitat.
Land Reserved for Transmission Lines.	0.22 ha	5.85 ha	
Recreational Sites	0	0	
Land Reserved for Recreational Purposes	0	0.06 ha	
Transformer Stations	0	0	
Land Reserved for Transportation,	75 m (0.04 ha)	21.8	
Agricultural Land	0	0	
Forest	0	17.67	Some forest stands are present on properties identified as industrial land.
Length Through Blueberry Fields	0	0	

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**Appendix C ENVIRONMENTAL DESKTOP DATA
ACQUIRED FOR THE TERRESTRIAL
ENVIRONMENT VALUED
COMPONENT (VC)**

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DATA REPORT 5941: Moncton, NB

Prepared 6 October 2017
by J. Churchill, Data Manager

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5.0 Rare Species within 100 km

- 5.1 Source Bibliography



Map 1. A 100 km buffer around the study area

1.0 PREFACE

The Atlantic Canada Conservation Data Centre (ACCDC) is part of a network of NatureServe data centres and heritage programs serving 50 states in the U.S.A, 10 provinces and 1 territory in Canada, plus several Central and South American countries. The NatureServe network is more than 30 years old and shares a common conservation data methodology. The ACCDC was founded in 1997, and maintains data for the jurisdictions of New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland and Labrador. Although a non-governmental agency, the ACCDC is supported by 6 federal agencies and 4 provincial governments, as well as through outside grants and data processing fees. URL: www.ACCDC.com.

Upon request and for a fee, the ACCDC queries its database and produces customized reports of the rare and endangered flora and fauna known to occur in or near a specified study area. As a supplement to that data, the ACCDC includes locations of managed areas with some level of protection, and known sites of ecological interest or sensitivity.

1.1 DATA LIST

Included datasets:

Filename	Contents
MonctonNB_5941ob.xls	All Rare and legally protected <i>Flora and Fauna</i> in your study area
MonctonNB_5941ob100km.xls	A list of Rare and legally protected <i>Flora and Fauna</i> within 100 km of your study area
MonctonNB_5941ma.xls	All <i>Managed Areas</i> in your study area
MonctonNB_5941sa.xls	All <i>Significant Natural Areas</i> in your study area
MonctonNB_5941ff.xls	Rare and common <i>Freshwater Fish</i> in your study area (DFO database)
MonctonNB_5941bb.xls	Common <i>Breeding Birds</i> in your study area

1.2 RESTRICTIONS

The ACCDC makes a strong effort to verify the accuracy of all the data that it manages, but it shall not be held responsible for any inaccuracies in data that it provides. By accepting ACCDC data, recipients assent to the following limits of use:

- a) Data is restricted to use by trained personnel who are sensitive to landowner interests and to potential threats to rare and/or endangered flora and fauna posed by the information provided.
- b) Data is restricted to use by the specified Data User; any third party requiring data must make its own data request.
- c) The ACCDC requires Data Users to cease using and delete data 12 months after receipt, and to make a new request for updated data if necessary at that time.
- d) ACCDC data responses are restricted to the data in our Data System at the time of the data request.
- e) Each record has an estimate of locational uncertainty, which must be referenced in order to understand the record's relevance to a particular location. Please see attached Data Dictionary for details.
- f) ACCDC data responses are not to be construed as exhaustive inventories of taxa in an area.
- g) The absence of a taxon cannot be inferred by its absence in an ACCDC data response.

1.3 ADDITIONAL INFORMATION

The attached file DataDictionary 2.1.pdf provides metadata for the data provided.

Please direct any additional questions about ACCDC data to the following individuals:

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney, Senior Scientist, Executive Director

Tel: (506) 364-2658

sblaney@mta.ca

Animals (Fauna)

John Klymko, Zoologist

Tel: (506) 364-2660

jklymko@mta.ca

Plant Communities

Sarah Robinson, Community Ecologist

Tel: (506) 364-2664

srobinson@mta.ca

Data Management, GIS

James Churchill, Data Manager

Tel: (902) 679-6146

jlchurchill@mta.ca

Billing

Jean Breau

Tel: (506) 364-2657

jrbreau@mta.ca

Questions on the biology of Federal Species at Risk can be directed to ACCDC: (506) 364-2658, with questions on Species at Risk regulations to: Samara Eaton, Canadian Wildlife Service (NB and PE): (506) 364-5060 or Julie McKnight, Canadian Wildlife Service (NS): (902) 426-4196.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in New Brunswick, please contact Stewart Lusk, Natural Resources: (506) 453-7110.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in Nova Scotia, please contact Sherman Boates, NSDNR: (902) 679-6146. To determine if location-sensitive species (section 4.3) occur near your study site please contact a NSDNR Regional Biologist:

Western: Duncan Bayne
(902) 648-3536
Duncan.Bayne@novascotia.ca

Western: Donald Sam
(902) 634-7525
Donald.Sam@novascotia.ca

Central: Shavonne Meyer
(902) 893-6353
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Central: Kimberly George
(902) 893-5630
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Eastern: Mark Pulsifer
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Eastern: Terry Power
(902) 563-3370
Terrance.Power@novascotia.ca

For provincial information about rare taxa and protected areas, or information about game animals, fish habitat etc., in Prince Edward Island, please contact Garry Gregory, PEI Dept. of Communities, Land and Environment: (902) 569-7595.

2.0 RARE AND ENDANGERED SPECIES

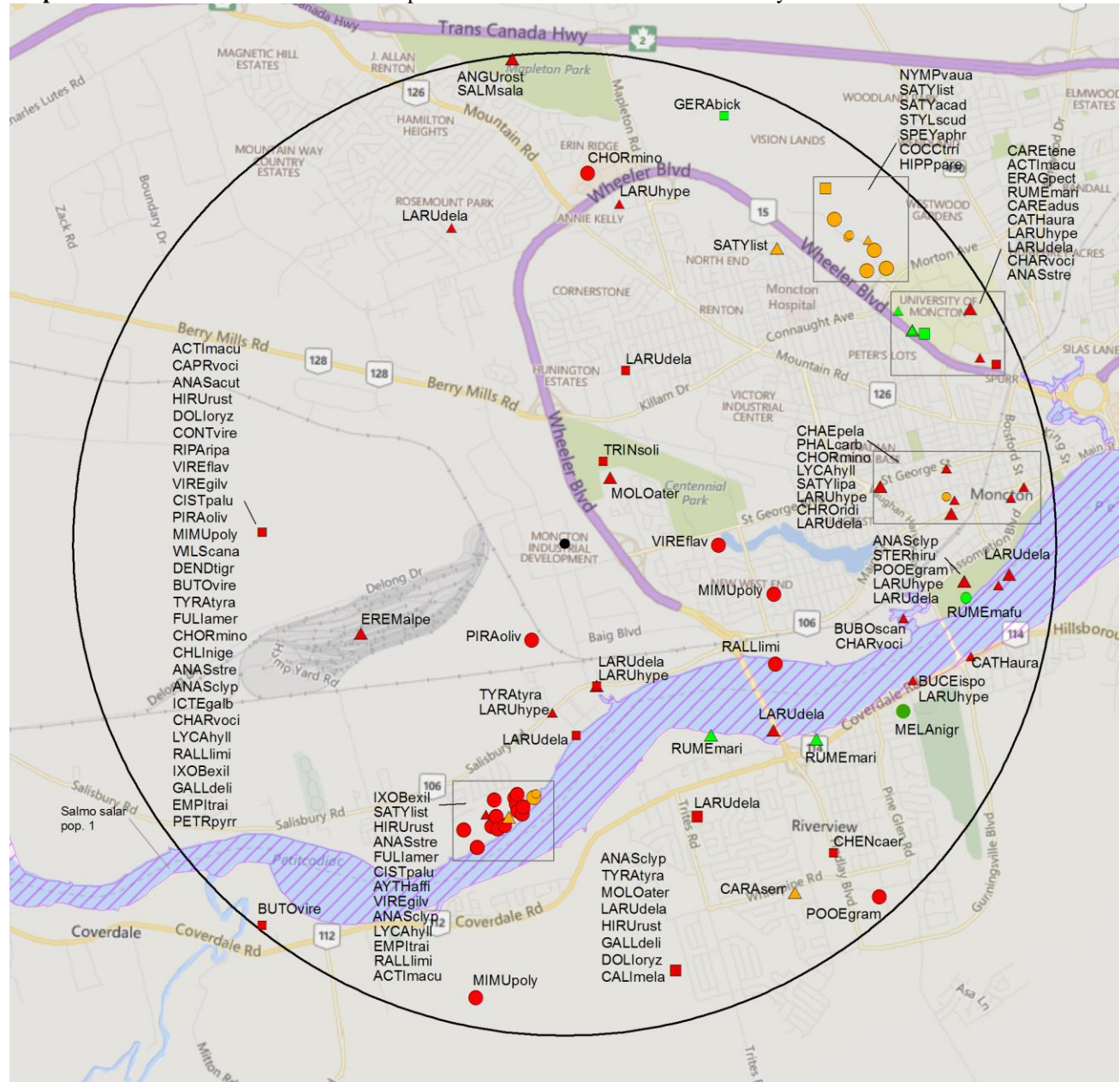
2.1 FLORA

The study area contains 8 records of 6 vascular, no records of nonvascular flora (Map 2 and attached: *ob.xls).

2.2 FAUNA

The study area contains 202 records of 47 vertebrate, 25 records of 10 invertebrate fauna (Map 2 and attached data files - see 1.1 Data List). Please see section 4.3 to determine if 'location-sensitive' species occur near your study site.

Map 2: Known observations of rare and/or protected flora and fauna within the study area.



- RESOLUTION**
- 4.7 within 50s of kilometers
 - 4.0 within 10s of kilometers
 - 3.7 within 5s of kilometers
 - △ 3.0 within kilometers
 - △ 2.7 within 500s of meters
 - ◇ 2.0 within 100s of meters
 - ◇ 1.7 within 10s of meters

- HIGHER TAXON**
- vertebrate fauna
 - invertebrate fauna
 - vascular flora
 - nonvascular flora

3.0 SPECIAL AREAS

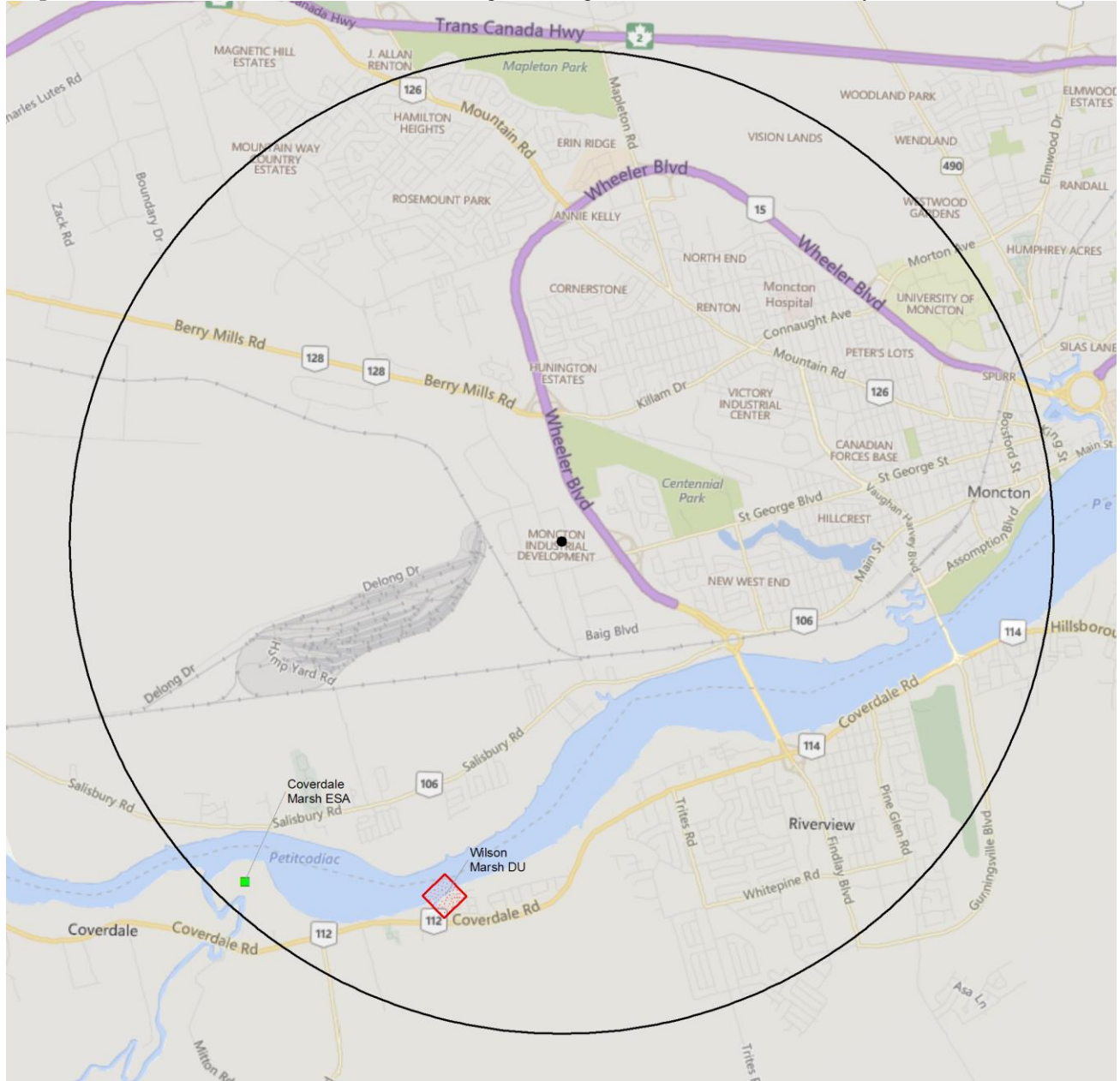
3.1 MANAGED AREAS

The GIS scan identified 1 managed area in the vicinity of the study area (Map 3 and attached file: *ma*.xls).

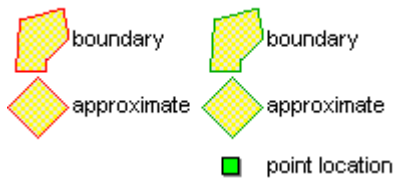
3.2 SIGNIFICANT AREAS

The GIS scan identified 1 biologically significant site in the vicinity of the study area (Map 3 and attached file: *sa*.xls).

Map 3: Boundaries and/or locations of known Managed and Significant Areas within the study area.



MANAGED AREAS SIGNIFICANT AREAS



4.0 RARE SPECIES LISTS

Rare and/or endangered taxa (excluding “location-sensitive” species, section 4.3) within the study area listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation (\pm the precision, in km, of the record). [P] = vascular plant, [N] = nonvascular plant, [A] = vertebrate animal, [I] = invertebrate animal, [C] = community. Note: records are from attached files *ob.xls/*ob.shp only.

4.1 FLORA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3	4 Secure	1	4.2 \pm 10.0
P	<i>Eragrostis pectinacea</i>	Tufted Love Grass				S2S3	4 Secure	1	4.2 \pm 1.0
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill				S3	4 Secure	1	4.7 \pm 5.0
P	<i>Carex tenera</i>	Tender Sedge				S3	4 Secure	1	4.1 \pm 0.0
P	<i>Rumex maritimus</i>	Sea-Side Dock				S3S4	4 Secure	3	2.5 \pm 1.0
P	<i>Rumex maritimus</i> var. <i>fueginus</i>	Tierra del Fuego Dock				S3S4	4 Secure	1	4.1 \pm 0.0

4.2 FAUNA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	<i>Ixobrychus exilis</i>	Least Bittern	Threatened	Threatened	Threatened	S1S2B,S1S2M	1 At Risk	2	2.8 \pm 0.0
A	<i>Caprimulgus vociferus</i>	Whip-Poor-Will	Threatened	Threatened	Threatened	S2B,S2M	1 At Risk	1	3.1 \pm 7.0
A	<i>Hirundo rustica</i>	Barn Swallow	Threatened		Threatened	S2B,S2M	3 Sensitive	3	2.8 \pm 0.0
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Threatened	S2S3B,S2M	1 At Risk	1	4.0 \pm 0.0
A	<i>Riparia riparia</i>	Bank Swallow	Threatened			S2S3B,S2S3M	3 Sensitive	5	3.1 \pm 7.0
A	<i>Wilsonia canadensis</i>	Canada Warbler	Threatened	Threatened	Threatened	S3B,S3M	1 At Risk	2	3.1 \pm 7.0
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Threatened		Threatened	S3B,S3M	3 Sensitive	6	3.1 \pm 7.0
A	<i>Chordeiles minor</i>	Common Nighthawk	Threatened	Threatened	Threatened	S3B,S4M	1 At Risk	7	3.1 \pm 7.0
A	<i>Anguilla rostrata</i>	American Eel	Threatened		Threatened	S4	4 Secure	1	5.0 \pm 1.0
A	<i>Bucephala islandica</i> (Eastern pop.)	Barrow's Goldeneye - Eastern pop.	Special Concern	Special Concern	Special Concern	S2M,S2N	3 Sensitive	1	3.8 \pm 119.0
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern		Special Concern	S4B,S4M	4 Secure	5	3.1 \pm 7.0
A	<i>Bubo scandiacus</i>	Snowy Owl	Not At Risk			S1N,S2S3M	4 Secure	1	3.5 \pm 0.0
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1S2B,S1S2M	3 Sensitive	2	2.9 \pm 0.0
A	<i>Chlidonias niger</i>	Black Tern	Not At Risk			S2B,S2M	3 Sensitive	1	3.1 \pm 7.0
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B,SUM	3 Sensitive	1	4.1 \pm 1.0
A	<i>Vireo flavifrons</i>	Yellow-throated Vireo				S1?B,S1?M	8 Accidental	2	1.6 \pm 0.0
A	<i>Aythya affinis</i>	Lesser Scaup				S1B,S4M	4 Secure	1	2.9 \pm 0.0
A	<i>Eremophila alpestris</i>	Horned Lark				S1B,S4N,S5M	2 May Be At Risk	1	2.3 \pm 1.0
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S1N,S2M	3 Sensitive	1	4.6 \pm 0.0
A	<i>Butorides virescens</i>	Green Heron				S1S2B,S1S2M	3 Sensitive	2	3.1 \pm 7.0
A	<i>Empidonax traillii</i>	Willow Flycatcher				S1S2B,S1S2M	3 Sensitive	3	3.0 \pm 0.0
A	<i>Cistothorus palustris</i>	Marsh Wren				S2B,S2M	3 Sensitive	13	2.7 \pm 0.0
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S2B,S2M	3 Sensitive	7	2.2 \pm 0.0
A	<i>Pooecetes gramineus</i>	Vesper Sparrow				S2B,S2M	2 May Be At Risk	3	4.1 \pm 1.0
A	<i>Anas strepera</i>	Gadwall				S2B,S3M	4 Secure	3	2.9 \pm 0.0
A	<i>Tringa solitaria</i>	Solitary Sandpiper				S2B,S5M	4 Secure	1	0.9 \pm 3.0
A	<i>Chen caerulescens</i>	Snow Goose				S2M	4 Secure	1	4.2 \pm 5.0
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S2N,S2M	4 Secure	1	3.3 \pm 2.0
A	<i>Larus hyperboreus</i>	Glaucous Gull				S2N,S2M	4 Secure	18	1.5 \pm 12.0
A	<i>Salmo salar</i>	Atlantic Salmon				S2S3	2 May Be At Risk	1	5.0 \pm 1.0
A	<i>Anas clypeata</i>	Northern Shoveler				S2S3B,S2S3M	4 Secure	8	3.0 \pm 0.0
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B,S2S3M	3 Sensitive	3	3.1 \pm 7.0
A	<i>Cathartes aura</i>	Turkey Vulture				S3B,S3M	4 Secure	2	4.3 \pm 0.0
A	<i>Rallus limicola</i>	Virginia Rail				S3B,S3M	3 Sensitive	22	2.5 \pm 0.0
A	<i>Charadrius vociferus</i>	Killdeer				S3B,S3M	3 Sensitive	10	3.1 \pm 7.0

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	<i>Vireo gilvus</i>	Warbling Vireo				S3B,S3M	4 Secure	7	2.7 ± 0.0
A	<i>Piranga olivacea</i>	Scarlet Tanager				S3B,S3M	4 Secure	2	1.0 ± 0.0
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S3B,S3M	2 May Be At Risk	3	0.8 ± 1.0
A	<i>Icterus galbula</i>	Baltimore Oriole				S3B,S3M	4 Secure	9	3.1 ± 7.0
A	<i>Dendroica tigrina</i>	Cape May Warbler				S3B,S4S5M	4 Secure	1	3.1 ± 7.0
A	<i>Anas acuta</i>	Northern Pintail				S3B,S5M	3 Sensitive	1	3.1 ± 7.0
A	<i>Melanitta nigra</i>	Black Scoter				S3M,S1S2N	3 Sensitive	1	3.8 ± 119.0
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3S4B,S3S4M	3 Sensitive	7	1.7 ± 0.0
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B,S5M	4 Secure	9	2.9 ± 0.0
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3S4B,S5M	4 Secure	3	3.1 ± 7.0
A	<i>Larus delawarensis</i>	Ring-billed Gull				S3S4B,S5M	4 Secure	16	1.5 ± 2.0
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S3S4M	4 Secure	1	4.5 ± 18.0
I	<i>Carabus serratus</i>	a Ground Beetle				S3	4 Secure	1	4.3 ± 1.0
I	<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle				S3	4 Secure	3	4.3 ± 0.0
I	<i>Lycaena hyllus</i>	Bronze Copper				S3	3 Sensitive	6	2.6 ± 0.0
I	<i>Satyrium acadica</i>	Acadian Hairstreak				S3	4 Secure	2	4.3 ± 0.0
I	<i>Speyeria aphrodite</i>	Aphrodite Fritillary				S3	4 Secure	1	4.4 ± 0.0
I	<i>Nymphalis l-album</i>	Compton Tortoiseshell				S3	4 Secure	1	4.5 ± 10.0
I	<i>Stylurus scudderi</i>	Zebra Clubtail				S3	4 Secure	3	4.2 ± 0.0
I	<i>Satyrium liparops</i>	Striped Hairstreak				S3S4	4 Secure	1	3.9 ± 0.0
I	<i>Satyrium liparops strigosum</i>	Striped Hairstreak				S3S4	4 Secure	4	2.7 ± 0.0
I	<i>Coccinella transversoguttata richardsoni</i>	Transverse Lady Beetle				SH	2 May Be At Risk	3	4.3 ± 0.0

4.3 LOCATION SENSITIVE SPECIES

The Department of Natural Resources in each Maritimes province considers a number of species “location sensitive”. Concern about exploitation of location-sensitive species precludes inclusion of precise coordinates in this report. Those intersecting your study area are indicated below with “YES”.

New Brunswick

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within the Study Site?
<i>Chrysemys picta picta</i>	Eastern Painted Turtle			No
<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	No
<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	No
<i>Haliaeetus leucocephalus</i>	Bald Eagle		Endangered	YES
<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius pop.	Special Concern	Endangered	YES
<i>Cicindela marginipennis</i>	Cobblestone Tiger Beetle	Endangered	Endangered	No
<i>Coenonympha nipsisquit</i>	Maritime Ringlet	Endangered	Endangered	No
<i>Bat Hibernaculum</i>		[Endangered]¹	[Endangered]¹	YES

¹ *Myotis lucifugus* (Little Brown Myotis), *Myotis septentrionalis* (Long-eared Myotis), and *Perimyotis subflavus* (Tri-colored Bat or Eastern Pipistrelle) are all Endangered under the Federal Species at Risk Act and the NB Species at Risk Act.

4.4 SOURCE BIBLIOGRAPHY

The recipient of these data shall acknowledge the ACCDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

# recs	CITATION
575	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
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7	Majka, C. 2009. Université de Moncton Insect Collection: Carabidae, Cerambycidae, Coccinellidae. Université de Moncton, 540 recs.
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1	Webster, R.P. & Edsall, J. 2007. 2005 New Brunswick Rare Butterfly Survey. Environmental Trust Fund, unpublished report, 232 recs.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 30666 records of 136 vertebrate and 702 records of 65 invertebrate fauna; 5362 records of 296 vascular, 644 records of 176 nonvascular flora (attached: *ob100km.xls).

Taxa within 100 km of the study site that are rare and/or endangered in the province in which the study site occurs. All ranks correspond to the province in which the study site falls, even for out-of-province records. Taxa are listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation (\pm the precision, in km, of the record).

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered	Endangered	Endangered	S1	1 At Risk	17	22.0 \pm 1.0	NB
A	<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	Endangered	Endangered	Endangered	S1	1 At Risk	12	22.0 \pm 1.0	NB
A	<i>Perimyotis subflavus</i>	Eastern Pipistrelle	Endangered	Endangered	Endangered	S1	1 At Risk	17	13.4 \pm 1.0	NB
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1?B,S1?M	1 At Risk	1	94.0 \pm 0.0	NS
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus ssp	Endangered	Endangered	Endangered	S1B,S1M	1 At Risk	1363	29.6 \pm 0.0	NB
A	<i>Dermochelys coriacea</i> (Atlantic pop.)	Leatherback Sea Turtle - Atlantic pop.	Endangered	Endangered	Endangered	S1S2N	1 At Risk	5	53.2 \pm 1.0	NB
A	<i>Salmo salar</i> pop. 1	Atlantic Salmon - Inner Bay of Fundy pop.	Endangered	Endangered	Endangered	S2	2 May Be At Risk	45	45.7 \pm 0.0	NB
A	<i>Calidris canutus rufa</i>	Red Knot rufa ssp	Endangered	Endangered	Endangered	S2M	1 At Risk	691	23.9 \pm 44.0	NB
A	<i>Rangifer tarandus</i> pop. 2	Woodland Caribou (Atlantic-Gasp -rsie pop.)	Endangered	Endangered	Extirpated	SX	0.1 Extirpated	2	25.8 \pm 1.0	NB
A	<i>Sturnella magna</i>	Eastern Meadowlark	Threatened	Threatened	Threatened	S1B,S1M	2 May Be At Risk	49	7.9 \pm 7.0	NB
A	<i>Ixobrychus exilis</i>	Least Bittern	Threatened	Threatened	Threatened	S1S2B,S1S2M	1 At Risk	14	2.8 \pm 0.0	NB

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened		Threatened	S1S2B,S1S2M	2 May Be At Risk	82	7.9 ± 7.0	NB
A	<i>Caprimulgus vociferus</i>	Whip-Poor-Will	Threatened	Threatened	Threatened	S2B,S2M	1 At Risk	27	3.1 ± 7.0	NB
A	<i>Hirundo rustica</i>	Barn Swallow	Threatened		Threatened	S2B,S2M	3 Sensitive	1243	2.8 ± 0.0	NB
A	<i>Catharus bicknelli</i>	Bicknell's Thrush	Threatened	Special Concern	Threatened	S2B,S2M	1 At Risk	11	10.1 ± 2.0	NB
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened		Threatened	S2S3	1 At Risk	566	7.7 ± 1.0	NB
A	<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Threatened	S2S3B,S2M	1 At Risk	246	4.0 ± 0.0	NB
A	<i>Riparia riparia</i>	Bank Swallow	Threatened			S2S3B,S2S3M	3 Sensitive	680	3.1 ± 7.0	NB
A	<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Threatened		Threatened	S3	4 Secure	3	15.7 ± 1.0	NB
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B,S3M	1 At Risk	486	5.8 ± 0.0	NB
A	<i>Wilsonia canadensis</i>	Canada Warbler	Threatened	Threatened	Threatened	S3B,S3M	1 At Risk	614	3.1 ± 7.0	NB
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Threatened		Threatened	S3B,S3M	3 Sensitive	1237	3.1 ± 7.0	NB
A	<i>Chordeiles minor</i>	Common Nighthawk	Threatened	Threatened	Threatened	S3B,S4M	1 At Risk	219	3.1 ± 7.0	NB
A	<i>Anguilla rostrata</i>	American Eel	Threatened		Threatened	S4	4 Secure	79	5.0 ± 1.0	NB
A	<i>Coturnicops noveboracensis</i>	Yellow Rail	Special Concern	Special Concern	Special Concern	S1?B,SUM	2 May Be At Risk	5	35.6 ± 3.0	NB
A	<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius	Special Concern	Special Concern	Endangered	S1B,S3M	1 At Risk	340	4.1 ± 1.0	NB
A	<i>Asio flammeus</i>	Short-eared Owl	Special Concern	Special Concern	Special Concern	S2B,S2M	3 Sensitive	39	9.7 ± 64.0	NB
A	<i>Bucephala islandica (Eastern pop.)</i>	Barrow's Goldeneye - Eastern pop.	Special Concern	Special Concern	Special Concern	S2M,S2N	3 Sensitive	106	3.8 ± 119.0	NB
A	<i>Balaenoptera physalus</i>	Fin Whale - Atlantic pop.	Special Concern	Special Concern	Special Concern	S2S3		1	51.8 ± 1.0	NB
A	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	Special Concern	Special Concern	Special Concern	S3	3 Sensitive	1	95.6 ± 10.0	NB
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Special Concern	S3	3 Sensitive	2	98.4 ± 1.0	NB
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Special Concern	S3B,S3M	2 May Be At Risk	91	5.8 ± 0.0	NB
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern			S3B,S3S4N,SUM	3 Sensitive	276	6.9 ± 7.0	NB
A	<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern			S3M	3 Sensitive	19	14.0 ± 0.0	NB
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern		Special Concern	S4B,S4M	4 Secure	631	3.1 ± 7.0	NB
A	<i>Podiceps auritus</i>	Horned Grebe	Special Concern		Special Concern	S4N,S4M	4 Secure	50	29.5 ± 1.0	NB
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S1?	5 Undetermined	4	60.1 ± 0.0	NB
A	<i>Bubo scandiacus</i>	Snowy Owl	Not At Risk			S1N,S2S3M	4 Secure	50	3.5 ± 0.0	NB
A	<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk			S1S2B,S1S2M	2 May Be At Risk	6	19.0 ± 0.0	NB
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1S2B,S1S2M	3 Sensitive	56	2.9 ± 0.0	NB
A	<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S1S2B,SUM	2 May Be At Risk	10	42.9 ± 0.0	NB
A	<i>Sorex dispar</i>	Long-tailed Shrew	Not At Risk	Special Concern		S2	3 Sensitive	3	31.9 ± 1.0	NB
A	<i>Buteo lineatus</i>	Red-shouldered Hawk	Not At Risk	Special Concern		S2B,S2M	2 May Be At Risk	25	5.8 ± 0.0	NB
A	<i>Chlidonias niger</i>	Black Tern	Not At Risk			S2B,S2M	3 Sensitive	65	3.1 ± 7.0	NB
A	<i>Lynx canadensis</i>	Canadian Lynx	Not At Risk		Endangered	S3	1 At Risk	17	16.6 ± 10.0	NB
A	<i>Desmognathus fuscus</i>	Northern Dusky Salamander	Not At Risk			S3	3 Sensitive	1	56.5 ± 0.0	NB
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B,SUM	3 Sensitive	559	4.1 ± 1.0	NB
A	<i>Podiceps grisegena</i>	Red-necked Grebe	Not At Risk			S3M,S2N	3 Sensitive	51	29.5 ± 1.0	NB
A	<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4		1	34.0 ± 1.0	NB
A	<i>Haliaeetus leucocephalus</i>	Bald Eagle	Not At Risk		Endangered	S4	1 At Risk	1055	1.9 ± 4.0	NB
A	<i>Canis lupus</i>	Gray Wolf	Not At Risk		Extirpated	SX	0.1 Extirpated	2	65.7 ± 1.0	NB
A	<i>Puma concolor pop. 1</i>	Eastern Cougar	Data Deficient		Endangered	SU	5 Undetermined	121	6.7 ± 1.0	NB
A	<i>Morone saxatilis</i>	Striped Bass	E,E,SC			S3	2 May Be At Risk	39	15.7 ± 0.0	NB
A	<i>Salvelinus alpinus</i>	Arctic Char				S1	3 Sensitive	3	63.9 ± 1.0	NB
A	<i>Vireo flavifrons</i>	Yellow-throated Vireo				S1?B,S1?M	8 Accidental	4	1.6 ± 0.0	NB
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S1?B,S5M	4 Secure	1892	5.9 ± 0.0	NB
A	<i>Aythya americana</i>	Redhead				S1B,S1M	8 Accidental	10	16.6 ± 0.0	NB
A	<i>Gallinula chloropus</i>	Common Moorhen				S1B,S1M	3 Sensitive	30	15.0 ± 0.0	NB
A	<i>Grus canadensis</i>	Sandhill Crane				S1B,S1M	8 Accidental	11	32.5 ± 0.0	NB
A	<i>Bartramia longicauda</i>	Upland Sandpiper				S1B,S1M	3 Sensitive	48	9.7 ± 0.0	NB
A	<i>Phalaropus tricolor</i>	Wilson's Phalarope				S1B,S1M	3 Sensitive	28	14.0 ± 0.0	NB

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
A	<i>Leucophaeus atricilla</i>	Laughing Gull				S1B,S1M	3 Sensitive	10	5.4 ± 1.0	NB
A	<i>Progne subis</i>	Purple Martin				S1B,S1M	2 May Be At Risk	137	6.9 ± 7.0	NB
A	<i>Thryothorus ludovicianus</i>	Carolina Wren				S1B,S1M	8 Accidental	7	20.7 ± 5.0	NB
A	<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B,S2S3M	4 Secure	106	15.0 ± 0.0	NB
A	<i>Aythya affinis</i>	Lesser Scaup				S1B,S4M	4 Secure	167	2.9 ± 0.0	NB
A	<i>Aythya marila</i>	Greater Scaup				S1B,S4M,S2N	4 Secure	10	31.9 ± 1.0	NB
A	<i>Eremophila alpestris</i>	Horned Lark				S1B,S4N,S5M	2 May Be At Risk	66	2.3 ± 1.0	NB
A	<i>Sterna paradisaea</i>	Arctic Tern				S1B,SUM	2 May Be At Risk	25	26.3 ± 7.0	NB
A	<i>Fratercula arctica</i>	Atlantic Puffin				S1B,SUN,SUM	3 Sensitive	3	54.7 ± 11.0	NB
A	<i>Branta bernicla</i>	Brant				S1N, S2S3M	4 Secure	34	27.9 ± 0.0	NB
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S1N,S2M	3 Sensitive	15	4.6 ± 0.0	NB
A	<i>Butorides virescens</i>	Green Heron				S1S2B,S1S2M	3 Sensitive	5	3.1 ± 7.0	NB
A	<i>Nycticorax nycticorax</i>	Black-crowned Night-heron				S1S2B,S1S2M	3 Sensitive	5	5.8 ± 0.0	NB
A	<i>Empidonax traillii</i>	Willow Flycatcher				S1S2B,S1S2M	3 Sensitive	69	3.0 ± 0.0	NB
A	<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow				S1S2B,S1S2M	2 May Be At Risk	4	76.7 ± 0.0	NS
A	<i>Troglodytes aedon</i>	House Wren				S1S2B,S1S2M	5 Undetermined	11	6.9 ± 7.0	NB
A	<i>Rissa tridactyla</i>	Black-legged Kittiwake				S1S2B,S4N,S5M	4 Secure	2	40.2 ± 0.0	NB
A	<i>Calidris bairdii</i>	Baird's Sandpiper				S1S2M	3 Sensitive	46	14.0 ± 0.0	NB
A	<i>Cistothorus palustris</i>	Marsh Wren				S2B,S2M	3 Sensitive	43	2.7 ± 0.0	NB
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S2B,S2M	3 Sensitive	134	2.2 ± 0.0	NB
A	<i>Toxostoma rufum</i>	Brown Thrasher				S2B,S2M	3 Sensitive	25	26.9 ± 7.0	NB
A	<i>Poocetes gramineus</i>	Vesper Sparrow				S2B,S2M	2 May Be At Risk	113	4.1 ± 1.0	NB
A	<i>Anas strepera</i>	Gadwall				S2B,S3M	4 Secure	221	2.9 ± 0.0	NB
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S2B,S4S5N,S4S5M	3 Sensitive	27	7.2 ± 7.0	NB
A	<i>Tringa solitaria</i>	Solitary Sandpiper				S2B,S5M	4 Secure	152	0.9 ± 3.0	NB
A	<i>Oceanodroma leucorhoa</i>	Leach's Storm-Petrel				S2B,SUM	3 Sensitive	1	38.4 ± 0.0	NB
A	<i>Chen caerulescens</i>	Snow Goose				S2M	4 Secure	22	4.2 ± 5.0	NB
A	<i>Phalacrocorax carbo</i>	Great Cormorant				S2N,S2M	4 Secure	30	3.3 ± 2.0	NB
A	<i>Somateria spectabilis</i>	King Eider				S2N,S2M	4 Secure	4	30.0 ± 0.0	NB
A	<i>Larus hyperboreus</i>	Glaucous Gull				S2N,S2M	4 Secure	93	1.5 ± 12.0	NB
A	<i>Asio otus</i>	Long-eared Owl				S2S3	5 Undetermined	25	6.9 ± 7.0	NB
A	<i>Picoides dorsalis</i>	American Three-toed Woodpecker				S2S3	3 Sensitive	13	23.1 ± 7.0	NB
A	<i>Salmo salar</i>	Atlantic Salmon				S2S3	2 May Be At Risk	59	5.0 ± 1.0	NB
A	<i>Anas clypeata</i>	Northern Shoveler				S2S3B,S2S3M	4 Secure	311	3.0 ± 0.0	NB
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S2S3B,S2S3M	3 Sensitive	82	6.9 ± 7.0	NB
A	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B,S2S3M	3 Sensitive	527	3.1 ± 7.0	NB
A	<i>Pluvialis dominica</i>	American Golden-Plover				S2S3M	3 Sensitive	185	24.0 ± 0.0	NB
A	<i>Calcarius lapponicus</i>	Lapland Longspur				S2S3N,SUM	3 Sensitive	44	5.1 ± 9.0	NB
A	<i>Cephus grylle</i>	Black Guillemot				S3	4 Secure	46	40.3 ± 5.0	NB
A	<i>Loxia curvirostra</i>	Red Crossbill				S3	4 Secure	128	6.9 ± 7.0	NB
A	<i>Carduelis pinus</i>	Pine Siskin				S3	4 Secure	337	6.9 ± 7.0	NB
A	<i>Sorex maritimensis</i>	Maritime Shrew				S3	4 Secure	142	45.4 ± 1.0	NB
A	<i>Eptesicus fuscus</i>	Big Brown Bat				S3	3 Sensitive	6	4.5 ± 1.0	NB
A	<i>Cathartes aura</i>	Turkey Vulture				S3B,S3M	4 Secure	157	4.3 ± 0.0	NB
A	<i>Rallus limicola</i>	Virginia Rail				S3B,S3M	3 Sensitive	146	2.5 ± 0.0	NB
A	<i>Charadrius vociferus</i>	Killdeer				S3B,S3M	3 Sensitive	860	3.1 ± 7.0	NB
A	<i>Tringa semipalmata</i>	Willet				S3B,S3M	3 Sensitive	771	6.3 ± 0.0	NB
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B,S3M	4 Secure	118	5.8 ± 0.0	NB
A	<i>Vireo gilvus</i>	Warbling Vireo				S3B,S3M	4 Secure	68	2.7 ± 0.0	NB
A	<i>Piranga olivacea</i>	Scarlet Tanager				S3B,S3M	4 Secure	57	1.0 ± 0.0	NB

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
A	<i>Passerina cyanea</i>	Indigo Bunting				S3B,S3M	4 Secure	38	7.3 ± 0.0	NB
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S3B,S3M	2 May Be At Risk	269	0.8 ± 1.0	NB
A	<i>Icterus galbula</i>	Baltimore Oriole				S3B,S3M	4 Secure	103	3.1 ± 7.0	NB
A	<i>Somateria mollissima</i>	Common Eider				S3B,S4M,S3N	4 Secure	185	11.1 ± 80.0	NB
A	<i>Dendroica tigrina</i>	Cape May Warbler				S3B,S4S5M	4 Secure	242	3.1 ± 7.0	NB
A	<i>Anas acuta</i>	Northern Pintail				S3B,S5M	3 Sensitive	136	3.1 ± 7.0	NB
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3B,S5M,S4S5N	4 Secure	281	18.1 ± 1.0	NB
A	<i>Arenaria interpres</i>	Ruddy Turnstone				S3M	4 Secure	949	5.9 ± 0.0	NB
A	<i>Phalaropus fulicarius</i>	Red Phalarope				S3M	3 Sensitive	4	42.3 ± 0.0	NB
A	<i>Melanitta nigra</i>	Black Scoter				S3M,S1S2N	3 Sensitive	237	3.8 ± 119.0	NB
A	<i>Bucephala albeola</i>	Bufflehead				S3M,S2N	3 Sensitive	112	9.7 ± 64.0	NB
A	<i>Calidris maritima</i>	Purple Sandpiper				S3M,S3N	4 Secure	68	15.5 ± 0.0	NB
A	<i>Synaptomys cooperi</i>	Southern Bog Lemming				S3S4	4 Secure	94	37.0 ± 1.0	NB
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3S4B,S3S4M	3 Sensitive	514	1.7 ± 0.0	NB
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B,S5M	4 Secure	854	2.9 ± 0.0	NB
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3S4B,S5M	4 Secure	824	3.1 ± 7.0	NB
A	<i>Larus delawarensis</i>	Ring-billed Gull				S3S4B,S5M	4 Secure	283	1.5 ± 2.0	NB
A	<i>Dendroica striata</i>	Blackpoll Warbler				S3S4B,S5M	4 Secure	56	10.3 ± 7.0	NB
A	<i>Pluvialis squatarola</i>	Black-bellied Plover				S3S4M	4 Secure	1638	14.0 ± 0.0	NB
A	<i>Limosa haemastica</i>	Hudsonian Godwit				S3S4M	4 Secure	405	32.1 ± 0.0	NB
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3S4M	4 Secure	2327	5.7 ± 0.0	NB
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S3S4M	4 Secure	367	4.5 ± 18.0	NB
A	<i>Calidris alba</i>	Sanderling				S3S4M,S1N	3 Sensitive	1478	27.9 ± 0.0	NB
A	<i>Morus bassanus</i>	Northern Gannet				SHB,S5M	4 Secure	171	23.9 ± 44.0	NB
A	<i>Lanius ludovicianus</i>	Loggerhead Shrike				SXB,SXM	1 At Risk	1	5.8 ± 0.0	NB
I	<i>Cicindela marginipennis</i>	Cobblestone Tiger Beetle	Endangered	Endangered	Endangered	S1	1 At Risk	33	91.7 ± 0.0	NB
I	<i>Gomphus ventricosus</i>	Skillet Clubtail	Endangered		Endangered	S1S2	2 May Be At Risk	2	54.4 ± 0.0	NB
I	<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Special Concern	S3B,S3M	3 Sensitive	75	8.5 ± 0.0	NB
I	<i>Ophiogomphus howei</i>	Pygmy Snaketail	Special Concern	Special Concern	Special Concern	S2	2 May Be At Risk	10	80.0 ± 0.0	NB
I	<i>Alasmidonta varicosa</i>	Brook Floater	Special Concern		Special Concern	S2	3 Sensitive	26	14.3 ± 1.0	NB
I	<i>Lampsilis cariosa</i>	Yellow Lampmussel	Special Concern	Special Concern	Special Concern	S2	3 Sensitive	24	64.5 ± 0.0	NB
I	<i>Bombus terricola</i>	Yellow-banded Bumblebee	Special Concern			S3?	3 Sensitive	20	26.8 ± 0.0	NB
I	<i>Appalachina sayana</i>	Spike-lip Crater	Not At Risk			S3?		1	81.5 ± 1.0	NB
I	<i>Erora laeta</i>	Early Hairstreak				S1	2 May Be At Risk	1	9.4 ± 1.0	NB
I	<i>Leucorrhinia patricia</i>	Canada Whiteface				S1	2 May Be At Risk	7	80.2 ± 1.0	NB
I	<i>Plebejus saepiolus</i>	Greenish Blue				S1S2	4 Secure	2	25.1 ± 7.0	NB
I	<i>Cicindela ancocisconensis</i>	Appalachian Tiger Beetle				S2	5 Undetermined	1	92.1 ± 0.0	NB
I	<i>Strymon melinus</i>	Grey Hairstreak				S2	4 Secure	1	18.4 ± 1.0	NB
I	<i>Somatochlora brevicincta</i>	Quebec Emerald				S2	5 Undetermined	2	18.6 ± 0.0	NB
I	<i>Somatochlora tenebrosa</i>	Clamp-Tipped Emerald				S2	5 Undetermined	5	28.1 ± 1.0	NB
I	<i>Ladona exusta</i>	White Corporal				S2	5 Undetermined	1	67.7 ± 0.0	NB
I	<i>Coenagrion interrogatum</i>	Subarctic Bluet				S2	3 Sensitive	3	84.7 ± 1.0	NB
I	<i>Callophrys henrici</i>	Henry's Elfin				S2S3	4 Secure	8	10.4 ± 0.0	NB
I	<i>Elaphrus americanus</i>	a Ground Beetle				S3	4 Secure	1	42.3 ± 0.0	NB
I	<i>Agonum crenistriatum</i>	a Ground Beetle				S3	5 Undetermined	1	5.3 ± 1.0	NB
I	<i>Agonum consimile</i>	a Ground Beetle				S3	4 Secure	1	5.3 ± 1.0	NB
I	<i>Lachnocrepis parallela</i>	a Ground Beetle				S3	4 Secure	1	40.9 ± 0.0	NB
I	<i>Dyschirius setosus</i>	a Ground Beetle				S3	5 Undetermined	3	40.9 ± 0.0	NB
I	<i>Harpalus fulvilabris</i>	a Ground Beetle				S3	4 Secure	1	41.9 ± 0.0	NB
I	<i>Amara pallipes</i>	a Ground Beetle				S3	4 Secure	2	5.3 ± 1.0	NB
I	<i>Carabus maeander</i>	a Ground Beetle				S3	5 Undetermined	1	5.3 ± 1.0	NB
I	<i>Carabus serratus</i>	a Ground Beetle				S3	4 Secure	1	4.3 ± 1.0	NB

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I	<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle				S3	4 Secure	7	4.3 ± 0.0	NB	
I	<i>Xylotrechus undulatus</i>	a Longhorned Beetle				S3		1	23.4 ± 1.0	NB	
I	<i>Calathus gregarius</i>	a Ground Beetle				S3	4 Secure	1	54.2 ± 1.0	NB	
I	<i>Gonioctena americana</i>	a Leaf Beetle				S3		1	41.6 ± 0.0	NB	
I	<i>Trachysida aspera</i>	a Longhorned Beetle				S3		1	46.3 ± 0.0	NB	
I	<i>Hesperia sassacus</i>	Indian Skipper				S3	4 Secure	2	78.4 ± 5.0	NB	
I	<i>Euphyes bimacula</i>	Two-spotted Skipper				S3	4 Secure	6	9.3 ± 1.0	NB	
I	<i>Papilio brevicauda</i>	Short-tailed Swallowtail				S3	4 Secure	6	50.7 ± 0.0	NB	
I	<i>Papilio brevicauda bretonensis</i>	Short-tailed Swallowtail				S3	4 Secure	5	33.8 ± 0.0	NB	
I	<i>Lycaena hyllus</i>	Bronze Copper				S3	3 Sensitive	73	2.6 ± 0.0	NB	
I	<i>Lycaena dospassosi</i>	Salt Marsh Copper				S3	4 Secure	76	30.6 ± 0.0	NB	
I	<i>Satyrium acadica</i>	Acadian Hairstreak				S3	4 Secure	20	4.3 ± 0.0	NB	
I	<i>Callophrys polios</i>	Hoary Elfin				S3	4 Secure	8	18.5 ± 0.0	NB	
I	<i>Plebejus idas</i>	Northern Blue				S3	4 Secure	18	40.2 ± 7.0	NB	
I	<i>Plebejus idas empetri</i>	Crowberry Blue				S3	4 Secure	1	65.7 ± 0.0	NB	
I	<i>Speyeria aphrodite</i>	Aphrodite Fritillary				S3	4 Secure	8	4.4 ± 0.0	NB	
I	<i>Boloria chariclea</i>	Arctic Fritillary				S3	4 Secure	11	32.0 ± 1.0	NB	
I	<i>Polygonia satyrus</i>	Satyr Comma				S3	4 Secure	1	86.9 ± 0.0	NB	
I	<i>Polygonia gracilis</i>	Hoary Comma				S3	4 Secure	1	76.9 ± 0.0	NB	
I	<i>Nymphalis l-album</i>	Compton Tortoiseshell				S3	4 Secure	5	4.5 ± 10.0	NB	
I	<i>Gomphus vastus</i>	Cobra Clubtail				S3	3 Sensitive	4	91.1 ± 0.0	NB	
I	<i>Gomphus abbreviatus</i>	Spine-crowned Clubtail				S3	4 Secure	9	72.7 ± 0.0	NB	
I	<i>Dorocordulia lepida</i>	Petite Emerald				S3	4 Secure	5	40.6 ± 1.0	NB	
I	<i>Somatochlora cingulata</i>	Lake Emerald				S3	4 Secure	3	50.6 ± 1.0	NB	
I	<i>Somatochlora forcipata</i>	Forcipate Emerald				S3	4 Secure	6	35.6 ± 0.0	NB	
I	<i>Williamsonia fletcheri</i>	Ebony Boghaunter				S3	4 Secure	13	9.8 ± 2.0	NB	
I	<i>Lestes eurinus</i>	Amber-Winged Spreadwing				S3	4 Secure	16	18.4 ± 1.0	NB	
I	<i>Enallagma geminatum</i>	Skimming Bluet				S3	5 Undetermined	4	80.7 ± 0.0	NB	
I	<i>Enallagma signatum</i>	Orange Bluet				S3	4 Secure	1	80.7 ± 0.0	NB	
I	<i>Stylurus scudderi</i>	Zebra Clubtail				S3	4 Secure	9	4.2 ± 0.0	NB	
I	<i>Alasmidonta undulata</i>	Triangle Floater				S3	3 Sensitive	54	15.9 ± 1.0	NB	
I	<i>Leptodea ochracea</i>	Tidewater Mucket				S3	4 Secure	34	39.9 ± 1.0	NB	
I	<i>Neohelix albolabris</i>	Whitelip				S3		1	83.2 ± 0.0	NB	
I	<i>Pantala hymenaea</i>	Spot-Winged Glider				S3B,S3M	4 Secure	3	30.3 ± 0.0	NB	
I	<i>Satyrium liparops</i>	Striped Hairstreak				S3S4	4 Secure	14	3.9 ± 0.0	NB	
I	<i>Satyrium liparops strigosum</i>	Striped Hairstreak				S3S4	4 Secure	11	2.7 ± 0.0	NB	
I	<i>Cupido comyntas</i>	Eastern Tailed Blue				S3S4	4 Secure	2	37.1 ± 0.0	NB	
I	<i>Coccinella transversoguttata richardsoni</i>	Transverse Lady Beetle				SH	2 May Be At Risk	27	4.3 ± 0.0	NB	
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered		Endangered		SH	2 May Be At Risk	1	63.3 ± 1.0	NB
N	<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered		SH	1 At Risk	2	78.0 ± 0.0	NS
N	<i>Peltigera hydrothyria</i>	Eastern Waterfan	Threatened				S1	5 Undetermined	5	55.7 ± 1.0	NB
N	<i>Anzia colpodes</i>	Black-foam Lichen	Threatened				S1S2	5 Undetermined	2	48.3 ± 1.0	NB
N	<i>Degelia plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Special Concern		S1	2 May Be At Risk	2	77.9 ± 0.0	NS
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk				S2S3	5 Undetermined	6	54.7 ± 0.0	NB
N	<i>Aloina rigida</i>	Aloe-Like Rigid Screw Moss					S1	2 May Be At Risk	1	44.5 ± 0.0	NB
N	<i>Aulacomnium heterostichum</i>	One-sided Groove Moss					S1	2 May Be At Risk	2	84.1 ± 0.0	NB
N	<i>Campylostelium saxicola</i>	a Moss					S1	2 May Be At Risk	1	86.6 ± 0.0	NB

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N	<i>Dicranoweisia crispula</i>	Mountain Thatch Moss				S1	2 May Be At Risk	1	53.9 ± 0.0	NB
N	<i>Didymodon rigidulus</i> <i>var. gracilis</i>	a moss				S1	2 May Be At Risk	1	61.3 ± 1.0	NB
N	<i>Syntrichia ruralis</i>	a Moss				S1	2 May Be At Risk	1	63.4 ± 0.0	NB
N	<i>Zygodon viridissimus</i> <i>var. viridissimus</i>	a Moss				S1	2 May Be At Risk	1	85.0 ± 0.0	NB
N	<i>Cladonia metacorallifera</i>	Reptilian Pixie-cup Lichen				S1	5 Undetermined	5	47.3 ± 1.0	NB
N	<i>Coccocarpha palmicola</i>	Salted Shell Lichen				S1	2 May Be At Risk	1	47.3 ± 1.0	NB
N	<i>Peltigera malacea</i>	Veinless Pelt Lichen				S1	5 Undetermined	1	58.8 ± 1.0	NB
N	<i>Bryoria bicolor</i>	Electrified Horsehair Lichen				S1	2 May Be At Risk	1	58.8 ± 1.0	NB
N	<i>Hygrobiella laxifolia</i>	Lax Notchwort				S1?	6 Not Assessed	1	59.6 ± 1.0	NB
N	<i>Bartramia ithyphylla</i>	Straight-leaved Apple Moss				S1?	2 May Be At Risk	2	54.9 ± 1.0	NB
N	<i>Dicranum bonjeanii</i>	Bonjean's Broom Moss				S1?	2 May Be At Risk	1	98.0 ± 0.0	NS
N	<i>Dicranum condensatum</i>	Condensed Broom Moss				S1?	2 May Be At Risk	1	54.0 ± 0.0	NB
N	<i>Entodon brevisetus</i>	a Moss				S1?	2 May Be At Risk	1	55.3 ± 10.0	NB
N	<i>Eurhynchium hians</i>	Light Beaked Moss				S1?	2 May Be At Risk	1	66.4 ± 0.0	NB
N	<i>Homomallium adnatum</i>	Adnate Hairy-gray Moss				S1?	2 May Be At Risk	4	32.0 ± 1.0	NB
N	<i>Plagiothecium latebricola</i>	Alder Silk Moss				S1?	2 May Be At Risk	2	60.4 ± 1.0	NB
N	<i>Rhytidium rugosum</i>	Wrinkle-leaved Moss				S1?	2 May Be At Risk	2	61.2 ± 1.0	NB
N	<i>Seligeria recurvata</i>	a Moss				S1?	2 May Be At Risk	3	28.3 ± 15.0	NB
N	<i>Timmia megapolitana</i>	Metropolitan Timmia Moss				S1?	2 May Be At Risk	2	97.4 ± 1.0	NS
N	<i>Rhizomnium pseudopunctatum</i>	Felted Leafy Moss				S1?	2 May Be At Risk	1	82.5 ± 0.0	NB
N	<i>Cephaloziella spinigera</i>	Spiny Threadwort				S1S2	6 Not Assessed	2	52.0 ± 0.0	NB
N	<i>Cladopodiella francisci</i>	Holt's Notchwort				S1S2	6 Not Assessed	4	45.0 ± 0.0	NB
N	<i>Harpanthus flotovianus</i>	Great Mountain Flapwort				S1S2	6 Not Assessed	2	47.1 ± 1.0	NB
N	<i>Jungermannia obovata</i>	Egg Flapwort				S1S2	6 Not Assessed	1	56.4 ± 0.0	NB
N	<i>Odontoschisma sphagni</i>	Bog-Moss Flapwort				S1S2	6 Not Assessed	1	94.6 ± 0.0	NB
N	<i>Pallavicinia lyellii</i>	Lyell's Ribbonwort				S1S2	6 Not Assessed	2	55.3 ± 1.0	NB
N	<i>Radula tenax</i>	Tenacious Scalewort				S1S2	6 Not Assessed	1	56.4 ± 0.0	NB
N	<i>Brachythecium acuminatum</i>	Acuminate Ragged Moss				S1S2	5 Undetermined	3	56.6 ± 2.0	NB
N	<i>Bryum salinum</i>	a Moss				S1S2	2 May Be At Risk	1	60.4 ± 1.0	NB
N	<i>Tortula obtusifolia</i>	a Moss				S1S2	2 May Be At Risk	1	96.7 ± 0.0	NB
N	<i>Distichium inclinatum</i>	Inclined Iris Moss				S1S2	2 May Be At Risk	5	61.3 ± 1.0	NB
N	<i>Ditrichum pallidum</i>	Pale Cow-hair Moss				S1S2	2 May Be At Risk	1	53.1 ± 1.0	NB
N	<i>Drummondia prorepens</i>	a Moss				S1S2	2 May Be At Risk	1	86.6 ± 0.0	NB
N	<i>Hygrohypnum bestii</i>	Best's Brook Moss				S1S2	3 Sensitive	5	51.2 ± 0.0	NB
N	<i>Seligeria brevifolia</i>	a Moss				S1S2	3 Sensitive	4	84.7 ± 0.0	NB
N	<i>Timmia norvegica</i>	a moss				S1S2	2 May Be At Risk	3	61.5 ± 0.0	NB
N	<i>Timmia norvegica var. excurrens</i>	a moss				S1S2	2 May Be At Risk	1	61.5 ± 0.0	NB
N	<i>Tortella humilis</i>	Small Crisp Moss				S1S2	2 May Be At Risk	7	52.8 ± 1.0	NB
N	<i>Pseudotaxiphyllum distichaceum</i>	a Moss				S1S2	2 May Be At Risk	1	27.6 ± 1.0	NB
N	<i>Umbilicaria vellea</i>	Grizzled Rocktripe Lichen				S1S2	5 Undetermined	1	60.9 ± 1.0	NB
N	<i>Peltigera scabrosa</i>	Greater Toad Pelt Lichen				S1S2	2 May Be At Risk	4	45.6 ± 1.0	NB
N	<i>Tritomaria scitula</i>	Mountain Notchwort				S1S3	6 Not Assessed	1	52.5 ± 1.0	NB
N	<i>Amphidium mougeotii</i>	a Moss				S2	3 Sensitive	11	50.9 ± 0.0	NB
N	<i>Anomodon viticulosus</i>	a Moss				S2	2 May Be At Risk	2	38.3 ± 10.0	NB
N	<i>Cirriphyllum piliferum</i>	Hair-pointed Moss				S2	3 Sensitive	4	34.8 ± 1.0	NB
N	<i>Dicranella palustris</i>	Drooping-Leaved Fork Moss				S2	3 Sensitive	9	47.1 ± 1.0	NB

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N	<i>Didymodon ferrugineus</i>	a moss				S2	3 Sensitive	1	61.0 ± 0.0	NB
N	<i>Anomodon tristis</i>	a Moss				S2	2 May Be At Risk	9	54.1 ± 10.0	NB
N	<i>Isopterygiopsis pulchella</i>	Neat Silk Moss				S2	3 Sensitive	7	51.8 ± 1.0	NB
N	<i>Meesia triquetra</i>	Three-ranked Cold Moss				S2	2 May Be At Risk	1	91.2 ± 100.0	NB
N	<i>Platydictya jungermannioides</i>	False Willow Moss				S2	3 Sensitive	4	28.3 ± 15.0	NB
N	<i>Pohlia elongata</i>	Long-necked Nodding Moss				S2	3 Sensitive	14	54.1 ± 0.0	NB
N	<i>Pohlia sphagnicola</i>	a moss				S2	3 Sensitive	1	80.9 ± 0.0	NB
N	<i>Seligeria calcarea</i>	Chalk Brittle Moss				S2	3 Sensitive	2	47.1 ± 0.0	NB
N	<i>Sphagnum centrale</i>	Central Peat Moss				S2	3 Sensitive	7	48.0 ± 1.0	NB
N	<i>Sphagnum flexuosum</i>	Flexuous Peatmoss				S2	3 Sensitive	4	50.5 ± 0.0	NB
N	<i>Tayloria serrata</i>	Serrate Trumpet Moss				S2	3 Sensitive	7	30.8 ± 100.0	NB
N	<i>Tetradontium brownianum</i>	Little Georgia				S2	3 Sensitive	12	53.9 ± 0.0	NB
N	<i>Thamnobryum alleghaniense</i>	a Moss				S2	3 Sensitive	13	29.9 ± 1.0	NB
N	<i>Tortula mucronifolia</i>	Mucronate Screw Moss				S2	3 Sensitive	1	97.8 ± 3.0	NS
N	<i>Ulotia phyllantha</i>	a Moss				S2	3 Sensitive	4	61.3 ± 0.0	NB
N	<i>Anomobryum filiforme</i>	a moss				S2	5 Undetermined	4	61.3 ± 1.0	NB
N	<i>Cladonia macrophylla</i>	Fig-leaved Lichen				S2	5 Undetermined	3	53.3 ± 1.0	NB
N	<i>Nephroma laevigatum</i>	Mustard Kidney Lichen				S2	2 May Be At Risk	2	78.4 ± 0.0	NB
N	<i>Anacamptodon splachnoides</i>	a Moss				S2?	3 Sensitive	2	61.8 ± 1.0	NB
N	<i>Andreaea rothii</i>	a Moss				S2?	3 Sensitive	5	50.9 ± 0.0	NB
N	<i>Anomodon minor</i>	Blunt-leaved Anomodon Moss				S2?	2 May Be At Risk	1	37.9 ± 1.0	NB
N	<i>Bryum pallescens</i>	Pale Bryum Moss				S2?	5 Undetermined	1	69.0 ± 100.0	NB
N	<i>Dichelyma capillaceum</i>	Hairlike Dichelyma Moss				S2?	3 Sensitive	1	55.2 ± 3.0	NB
N	<i>Hygrohypnum montanum</i>	a Moss				S2?	3 Sensitive	2	50.5 ± 1.0	NB
N	<i>Schistostega pennata</i>	Luminous Moss				S2?	3 Sensitive	1	87.5 ± 100.0	NB
N	<i>Seligeria diversifolia</i>	a Moss				S2?	3 Sensitive	1	89.7 ± 0.0	NB
N	<i>Sphagnum angermanicum</i>	a Peatmoss				S2?	3 Sensitive	2	55.2 ± 10.0	NB
N	<i>Trichodon cylindricus</i>	Cylindric Hairy-teeth Moss				S2?	3 Sensitive	2	28.3 ± 15.0	NB
N	<i>Plagiomnium rostratum</i>	Long-beaked Leafy Moss				S2?	3 Sensitive	5	58.0 ± 0.0	NB
N	<i>Ramalina pollinaria</i>	Chalky Ramalina Lichen				S2?	5 Undetermined	1	58.4 ± 1.0	NB
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen				S2?	5 Undetermined	1	84.0 ± 0.0	NB
N	<i>Nephroma arcticum</i>	Arctic Kidney Lichen				S2?	3 Sensitive	1	57.0 ± 1.0	NB
N	<i>Bryum uliginosum</i>	a Moss				S2S3	3 Sensitive	1	61.3 ± 0.0	NB
N	<i>Calliergonella cuspidata</i>	Common Large Wetland Moss				S2S3	3 Sensitive	4	41.1 ± 5.0	NB
N	<i>Campylium polygamum</i>	a Moss				S2S3	3 Sensitive	1	53.9 ± 0.0	NB
N	<i>Palustriella falcata</i>	a Moss				S2S3	3 Sensitive	2	58.8 ± 0.0	NB
N	<i>Didymodon rigidulus</i>	Rigid Screw Moss				S2S3	3 Sensitive	8	56.6 ± 2.0	NB
N	<i>Ephemerum serratum</i>	a Moss				S2S3	3 Sensitive	2	62.2 ± 0.0	NB
N	<i>Orthotrichum speciosum</i>	Showy Bristle Moss				S2S3	5 Undetermined	4	63.3 ± 4.0	NB
N	<i>Pohlia prolifera</i>	Cottony Nodding Moss				S2S3	3 Sensitive	14	28.3 ± 15.0	NB
N	<i>Racomitrium fasciculare</i>	a Moss				S2S3	3 Sensitive	3	53.9 ± 0.0	NB
N	<i>Racomitrium affine</i>	a Moss				S2S3	3 Sensitive	1	48.2 ± 1.0	NB
N	<i>Saelania glaucescens</i>	Blue Dew Moss				S2S3	3 Sensitive	2	53.9 ± 0.0	NB
N	<i>Sphagnum subfulvum</i>	a Peatmoss				S2S3	2 May Be At Risk	2	80.2 ± 0.0	NB
N	<i>Taxiphyllum deplanatum</i>	Imbricate Yew-leaved Moss				S2S3	3 Sensitive	2	56.4 ± 1.0	NB

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
N	<i>Zygodon viridissimus</i>	a Moss				S2S3	2 May Be At Risk	2	56.4 ± 1.0	NB
N	<i>Schistidium agassizii</i>	Elf Bloom Moss				S2S3	3 Sensitive	3	48.2 ± 1.0	NB
N	<i>Loeskeobryum brevirostre</i>	a Moss				S2S3	3 Sensitive	16	50.9 ± 0.0	NB
N	<i>Cyrtomnium hymenophylloides</i>	Short-pointed Lantern Moss				S2S3	3 Sensitive	6	47.3 ± 0.0	NB
N	<i>Cladonia acuminata</i>	Scantly Clad Pixie Lichen				S2S3	5 Undetermined	2	60.9 ± 1.0	NB
N	<i>Cladonia ramulosa</i>	Bran Lichen				S2S3	5 Undetermined	4	55.5 ± 1.0	NB
N	<i>Cladonia sulphurina</i>	Greater Sulphur-cup Lichen				S2S3	5 Undetermined	1	45.3 ± 1.0	NB
N	<i>Dendroscopula umhausense</i>	a lichen				S2S3	3 Sensitive	1	87.0 ± 0.0	NB
N	<i>Parmeliopsis ambigua</i>	Green Starburst Lichen				S2S3	5 Undetermined	1	64.0 ± 1.0	NB
N	<i>Sphaerophorus globosus</i>	Northern Coral Lichen				S2S3	3 Sensitive	5	58.8 ± 1.0	NB
N	<i>Hypnum curvifolium</i>	Curved-leaved Plait Moss				S3	3 Sensitive	8	50.9 ± 0.0	NB
N	<i>Tortella fragilis</i>	Fragile Twisted Moss				S3	3 Sensitive	1	61.5 ± 0.0	NB
N	<i>Schistidium maritimum</i>	a Moss				S3	4 Secure	6	57.7 ± 0.0	NB
N	<i>Hymenostylium recurvirostre</i>	Hymenostylium Moss				S3	3 Sensitive	5	61.8 ± 1.0	NB
N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	3 Sensitive	2	87.0 ± 0.0	NB
N	<i>Solorina saccata</i>	Woodland Owl Lichen				S3	5 Undetermined	6	60.9 ± 1.0	NB
N	<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S3	5 Undetermined	1	81.6 ± 0.0	NB
N	<i>Normandina pulchella</i>	Rimmed Elf-ear Lichen				S3	5 Undetermined	3	55.5 ± 1.0	NB
N	<i>Cladonia farinacea</i>	Farinose Pixie Lichen				S3	5 Undetermined	5	54.4 ± 1.0	NB
N	<i>Leptogium lichenoides</i>	Tattered Jellyskin Lichen				S3	5 Undetermined	6	60.9 ± 1.0	NB
N	<i>Nephroma bellum</i>	Naked Kidney Lichen				S3	4 Secure	3	53.0 ± 1.0	NB
N	<i>Peltigera degenii</i>	Lustrous Pelt Lichen				S3	5 Undetermined	3	55.7 ± 1.0	NB
N	<i>Usnea strigosa</i>	Bushy Beard Lichen				S3	5 Undetermined	4	24.1 ± 0.0	NB
N	<i>Leptogium laceroides</i>	Short-bearded Jellyskin Lichen				S3	3 Sensitive	2	48.3 ± 1.0	NB
N	<i>Peltigera membranacea</i>	Membranous Pelt Lichen				S3	5 Undetermined	9	60.9 ± 1.0	NB
N	<i>Cladonia carneola</i>	Crowned Pixie-cup Lichen				S3	5 Undetermined	1	55.1 ± 1.0	NB
N	<i>Cladonia deformis</i>	Lesser Sulphur-cup Lichen				S3	4 Secure	5	53.3 ± 1.0	NB
N	<i>Aulacomnium androgynum</i>	Little Groove Moss				S3?	4 Secure	9	28.3 ± 15.0	NB
N	<i>Dicranella rufescens</i>	Red Forklet Moss				S3?	5 Undetermined	1	61.5 ± 0.0	NB
N	<i>Rhytidiadelphus loreus</i>	Lanky Moss				S3?	2 May Be At Risk	1	61.3 ± 1.0	NB
N	<i>Sphagnum lescurii</i>	a Peatmoss				S3?	5 Undetermined	5	47.6 ± 1.0	NB
N	<i>Stereocaulon subcoralloides</i>	Coralloid Foam Lichen				S3?	5 Undetermined	1	58.4 ± 1.0	NB
N	<i>Anomodon rugelii</i>	Rugel's Anomodon Moss				S3S4	3 Sensitive	1	98.9 ± 0.0	NS
N	<i>Barbula convoluta</i>	Lesser Bird's-claw Beard Moss				S3S4	4 Secure	1	51.4 ± 15.0	NB
N	<i>Brachythecium velutinum</i>	Velvet Ragged Moss				S3S4	4 Secure	1	54.4 ± 1.0	NB
N	<i>Dicranella cerviculata</i>	a Moss				S3S4	3 Sensitive	3	51.1 ± 2.0	NB
N	<i>Dicranum majus</i>	Greater Broom Moss				S3S4	4 Secure	20	47.3 ± 0.0	NB
N	<i>Dicranum leioneuron</i>	a Dicranum Moss				S3S4	4 Secure	2	29.6 ± 0.0	NB
N	<i>Encalypta ciliata</i>	Fringed Extinguisher Moss				S3S4	3 Sensitive	3	61.0 ± 0.0	NB
N	<i>Fissidens bryoides</i>	Lesser Pocket Moss				S3S4	4 Secure	4	57.7 ± 0.0	NB
N	<i>Heterocladium dimorphum</i>	Dimorphous Tangle Moss				S3S4	4 Secure	5	50.9 ± 0.0	NB
N	<i>Isopterygiopsis muelleriana</i>	a Moss				S3S4	4 Secure	18	47.3 ± 0.0	NB
N	<i>Myurella julacea</i>	Small Mouse-tail Moss				S3S4	4 Secure	2	61.5 ± 0.0	NB
N	<i>Physcomitrium pyriforme</i>	Pear-shaped Urn Moss				S3S4	3 Sensitive	1	66.7 ± 0.0	NB
N	<i>Pogonatum dentatum</i>	Mountain Hair Moss				S3S4	4 Secure	4	58.0 ± 0.0	NS

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N	<i>Sphagnum compactum</i>	Compact Peat Moss				S3S4	4 Secure	2	85.6 ± 1.0	PE
N	<i>Sphagnum quinquefarium</i>	Five-ranked Peat Moss				S3S4	4 Secure	1	54.1 ± 0.0	NB
N	<i>Sphagnum torreyanum</i>	a Peatmoss				S3S4	4 Secure	2	67.4 ± 0.0	NB
N	<i>Sphagnum austinii</i>	Austin's Peat Moss				S3S4	4 Secure	1	54.6 ± 0.0	NS
N	<i>Sphagnum contortum</i>	Twisted Peat Moss				S3S4	4 Secure	1	67.4 ± 0.0	NB
N	<i>Tetraphis geniculata</i>	Geniculate Four-tooth Moss				S3S4	4 Secure	12	48.2 ± 1.0	NB
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S3S4	4 Secure	2	75.8 ± 0.0	NS
N	<i>Weissia controversa</i>	Green-Cushioned Weissia				S3S4	4 Secure	2	61.8 ± 1.0	NB
N	<i>Abietinella abietina</i>	Wiry Fern Moss				S3S4	4 Secure	2	61.5 ± 0.0	NB
N	<i>Trichostomum tenuirostre</i>	Acid-Soil Moss				S3S4	4 Secure	6	53.9 ± 0.0	NB
N	<i>Rauvolfia scita</i>	Smaller Fern Moss				S3S4	3 Sensitive	1	79.2 ± 0.0	NB
N	<i>Pannaria rubiginosa</i>	Brown-eyed Shingle Lichen				S3S4	3 Sensitive	3	61.2 ± 1.0	NB
N	<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen				S3S4	5 Undetermined	11	45.6 ± 1.0	NB
N	<i>Hypogymnia vittata</i>	Slender Monk's Hood Lichen				S3S4	4 Secure	22	45.6 ± 1.0	NB
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	4 Secure	3	55.1 ± 1.0	NB
N	<i>Hypocenomyce friesii</i>	a Lichen				S3S4	5 Undetermined	1	60.9 ± 1.0	NB
N	<i>Melanelia panniformis</i>	Shingled Camouflage Lichen				S3S4	5 Undetermined	4	47.6 ± 1.0	NB
N	<i>Nephroma parile</i>	Powdery Kidney Lichen				S3S4	4 Secure	7	47.3 ± 1.0	NB
N	<i>Protopannaria pezizoides</i>	Brown-gray Moss-shingle Lichen				S3S4	4 Secure	10	60.9 ± 1.0	NB
N	<i>Pseudocyphellaria perpetua</i>	Gilded Specklebelly Lichen				S3S4	3 Sensitive	11	23.6 ± 0.0	NB
N	<i>Stereocaulon paschale</i>	Easter Foam Lichen				S3S4	5 Undetermined	1	41.7 ± 1.0	NB
N	<i>Pannaria conopsea</i>	Mealy-rimmed Shingle Lichen				S3S4	3 Sensitive	1	80.4 ± 0.0	NS
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	3 Sensitive	8	48.3 ± 1.0	NB
N	<i>Peltigera neopolydactyla</i>	Undulating Pelt Lichen				S3S4	5 Undetermined	9	47.3 ± 1.0	NB
N	<i>Cladonia cariosa</i>	Lesser Ribbed Pixie Lichen				S3S4	4 Secure	3	56.5 ± 1.0	NB
N	<i>Hypocenomyce scalaris</i>	Common Clam Lichen				S3S4	5 Undetermined	1	58.4 ± 1.0	NB
N	<i>Dermatocarpon luridum</i>	Brookside Stippleback Lichen				S3S4	4 Secure	5	45.3 ± 1.0	NB
N	<i>Leucodon brachypus</i>	a Moss				SH	2 May Be At Risk	13	49.7 ± 1.0	NB
N	<i>Splachnum luteum</i>	Yellow Collar Moss				SH	5 Undetermined	1	69.0 ± 100.0	NB
N	<i>Thelia hirtella</i>	a Moss				SH	2 May Be At Risk	1	91.2 ± 100.0	NB
N	<i>Cyrtio-hypnum minutulum</i>	Tiny Cedar Moss				SH	2 May Be At Risk	3	60.6 ± 10.0	NB
P	<i>Juglans cinerea</i>	Butternut	Endangered	Endangered	Endangered	S1	1 At Risk	19	37.2 ± 1.0	NB
P	<i>Symphyotrichum laurentianum</i>	Gulf of St Lawrence Aster	Threatened	Threatened	Endangered	S1	1 At Risk	19	76.4 ± 0.0	NB
P	<i>Symphyotrichum subulatum</i> (Bathurst pop)	Bathurst Aster - Bathurst pop.	Special Concern	Special Concern	Endangered	S2	1 At Risk	20	60.6 ± 0.0	NB
P	<i>Isoetes prototypus</i>	Prototype Quillwort	Special Concern	Special Concern	Endangered	S2	1 At Risk	3	93.5 ± 0.0	NS
P	<i>Lechea maritima</i> var. <i>subcylindrica</i>	Beach Pinweed	Special Concern			S2	3 Sensitive	468	45.6 ± 0.0	NB
P	<i>Cryptotaenia canadensis</i>	Canada Honewort				S1	2 May Be At Risk	1	65.8 ± 1.0	NB
P	<i>Sanicula trifoliata</i>	Large-Fruited Sanicle				S1	2 May Be At Risk	1	98.5 ± 5.0	NB
P	<i>Antennaria parlinii</i>	a Pussytoes				S1	2 May Be At Risk	5	98.0 ± 1.0	NB
P	<i>Symphyotrichum subulatum</i> (non-Bathurst pop)	Annual Saltmarsh Aster				S1	2 May Be At Risk	12	78.3 ± 0.0	NB
P	<i>Pseudognaphalium</i>	Eastern Cudweed				S1	2 May Be At Risk	28	50.5 ± 5.0	NB

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P	<i>obtusifolium</i>									
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed				S1	2 May Be At Risk	2	93.5 ± 0.0	NB
P	<i>Hieracium robinsonii</i>	Robinson's Hawkweed				S1	3 Sensitive	7	48.7 ± 0.0	NB
P	<i>Solidago multiradiata</i>	Multi-rayed Goldenrod				S1	2 May Be At Risk	19	26.8 ± 0.0	NB
P	<i>Cardamine parviflora</i> <i>var. arenicola</i>	Small-flowered Bittercress				S1	2 May Be At Risk	10	87.4 ± 1.0	NS
P	<i>Draba arabisans</i>	Rock Whitlow-Grass				S1	2 May Be At Risk	28	54.2 ± 0.0	NB
P	<i>Draba glabella</i>	Rock Whitlow-Grass				S1	2 May Be At Risk	7	61.2 ± 0.0	NB
P	<i>Stellaria crassifolia</i>	Fleshy Stitchwort				S1	2 May Be At Risk	3	28.5 ± 5.0	NB
P	<i>Chenopodium capitatum</i>	Strawberry-blite				S1	2 May Be At Risk	2	91.1 ± 1.0	NB
P	<i>Chenopodium simplex</i>	Maple-leaved Goosefoot				S1	2 May Be At Risk	6	31.2 ± 5.0	NB
P	<i>Suaeda rolandii</i>	Roland's Sea-Blite				S1	3 Sensitive	4	35.8 ± 0.0	NB
P	<i>Triadenum virginicum</i>	Virginia St John's-wort				S1	2 May Be At Risk	1	99.3 ± 0.0	NB
P	<i>Corema conradii</i>	Broom Crowberry				S1	2 May Be At Risk	4	98.2 ± 0.0	PE
P	<i>Vaccinium boreale</i>	Northern Blueberry				S1	2 May Be At Risk	5	37.9 ± 1.0	NB
P	<i>Chamaesyce polygonifolia</i>	Seaside Spurge				S1	2 May Be At Risk	13	71.4 ± 0.0	NB
P	<i>Lespedeza capitata</i>	Round-headed Bush-clover				S1	2 May Be At Risk	4	91.9 ± 0.0	NB
P	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed				S1	2 May Be At Risk	2	74.1 ± 5.0	NS
P	<i>Lysimachia quadrifolia</i>	Whorled Yellow Loosestrife				S1	2 May Be At Risk	4	92.6 ± 0.0	NB
P	<i>Primula laurentiana</i>	Laurentian Primrose				S1	2 May Be At Risk	28	61.6 ± 0.0	NB
P	<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S1	2 May Be At Risk	2	22.0 ± 1.0	NB
P	<i>Crataegus jonesiae</i>	Jones' Hawthorn				S1	2 May Be At Risk	1	72.4 ± 1.0	NB
P	<i>Dryas integrifolia</i>	Entire-leaved Mountain Avens				S1	2 May Be At Risk	14	26.7 ± 3.0	NB
P	<i>Potentilla canadensis</i>	Canada Cinquefoil				S1	5 Undetermined	1	81.8 ± 0.0	NB
P	<i>Waldsteinia fragarioides</i>	Barren Strawberry				S1	2 May Be At Risk	1	43.9 ± 1.0	NB
P	<i>Salix myrtillofolia</i>	Blueberry Willow				S1	2 May Be At Risk	24	27.4 ± 0.0	NB
P	<i>Saxifraga paniculata</i> <i>ssp. neogaea</i>	White Mountain Saxifrage				S1	2 May Be At Risk	21	58.9 ± 0.0	NB
P	<i>Agalinis paupercula</i> <i>var. borealis</i>	Small-flowered Agalinis				S1	2 May Be At Risk	39	57.7 ± 0.0	NS
P	<i>Viola sagittata</i> <i>var. ovata</i>	Arrow-Leaved Violet				S1	2 May Be At Risk	1	95.6 ± 2.0	NS
P	<i>Carex annectens</i>	Yellow-Fruited Sedge				S1	2 May Be At Risk	3	35.5 ± 0.0	NB
P	<i>Carex atlantica</i> <i>ssp. atlantica</i>	Atlantic Sedge				S1	2 May Be At Risk	8	50.0 ± 0.0	NB
P	<i>Carex backii</i>	Rocky Mountain Sedge				S1	2 May Be At Risk	3	32.9 ± 0.0	NB
P	<i>Carex merritt-feraldii</i>	Merritt Fernald's Sedge				S1	2 May Be At Risk	1	33.4 ± 0.0	NB
P	<i>Carex sterilis</i>	Sterile Sedge				S1	2 May Be At Risk	1	37.5 ± 2.0	NB
P	<i>Carex grisea</i>	Inflated Narrow-leaved Sedge				S1	2 May Be At Risk	9	67.0 ± 5.0	NB
P	<i>Cyperus lupulinus</i>	Hop Flatsedge				S1	2 May Be At Risk	2	94.0 ± 0.0	NB
P	<i>Cyperus lupulinus</i> <i>ssp. macilentus</i>	Hop Flatsedge				S1	2 May Be At Risk	5	96.4 ± 0.0	NB
P	<i>Scirpus pendulus</i>	Hanging Bulrush				S1	2 May Be At Risk	7	36.9 ± 0.0	NB
P	<i>Sisyrinchium angustifolium</i>	Narrow-leaved Blue-eyed-grass				S1	2 May Be At Risk	1	66.3 ± 5.0	NS
P	<i>Juncus greenei</i>	Greene's Rush				S1	2 May Be At Risk	9	48.6 ± 0.0	NB
P	<i>Juncus stygius</i>	Moor Rush				S1	2 May Be At Risk	1	86.0 ± 0.0	NB
P	<i>Juncus stygius</i> <i>ssp. americanus</i>	Moor Rush				S1	2 May Be At Risk	16	52.3 ± 5.0	NB
P	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain				S1	2 May Be At Risk	5	30.5 ± 5.0	NB
P	<i>Malaxis brachypoda</i>	White Adder's-Mouth				S1	2 May Be At Risk	4	93.1 ± 0.0	NS
P	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S1	2 May Be At Risk	3	31.3 ± 0.0	NB
P	<i>Calamagrostis stricta</i>	Slim-stemmed Reed Grass				S1	2 May Be At Risk	2	47.4 ± 1.0	NB

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P	<i>ssp. inexpansa</i>									
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S1	2 May Be At Risk	3	93.3 ± 1.0	NB
P	<i>Danthonia compressa</i>	Flattened Oat Grass				S1	2 May Be At Risk	13	34.3 ± 0.0	NB
P	<i>Festuca subverticillata</i>	Nodding Fescue				S1	2 May Be At Risk	8	80.9 ± 0.0	NS
P	<i>Potamogeton friesii</i>	Fries' Pondweed				S1	2 May Be At Risk	6	54.5 ± 0.0	NS
P	<i>Potamogeton strictifolius</i>	Straight-leaved Pondweed				S1	2 May Be At Risk	1	97.6 ± 2.0	NB
P	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern				S1	2 May Be At Risk	1	65.7 ± 1.0	NB
P	<i>Dryopteris filix-mas</i>	Male Fern				S1	2 May Be At Risk	2	24.9 ± 1.0	NB
P	<i>Schizaea pusilla</i>	Little Curlygrass Fern				S1	2 May Be At Risk	9	54.5 ± 0.0	NB
P	<i>Bidens heterodoxa</i>	Connecticut Beggar-Ticks				S1?	2 May Be At Risk	2	89.9 ± 0.0	NB
P	<i>Cuscuta campestris</i>	Field Dodder				S1?	2 May Be At Risk	3	93.6 ± 5.0	NB
P	<i>Carex laxiflora</i>	Loose-Flowered Sedge				S1?	5 Undetermined	1	93.3 ± 7.0	NS
P	<i>Selaginella rupestris</i>	Rock Spikemoss				S1S2	2 May Be At Risk	7	59.3 ± 1.0	NB
P	<i>Thelypteris simulata</i>	Bog Fern				S1S2	2 May Be At Risk	5	97.0 ± 0.0	NB
P	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S1S3	2 May Be At Risk	5	30.3 ± 0.0	NB
P	<i>Eriophorum russeolum</i> <i>var. albidum</i>	Russet Cotton-Grass				S1S3	5 Undetermined	1	46.4 ± 1.0	NB
P	<i>Listera australis</i>	Southern Twayblade			Endangered	S2	1 At Risk	31	29.6 ± 0.0	NB
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely				S2	3 Sensitive	8	71.9 ± 1.0	NS
P	<i>Pseudognaphalium macounii</i>	Macoun's Cudweed				S2	3 Sensitive	41	30.5 ± 5.0	NB
P	<i>Ionactis linariifolius</i>	Stiff Aster				S2	3 Sensitive	3	74.8 ± 5.0	NB
P	<i>Symphotrichum racemosum</i>	Small White Aster				S2	3 Sensitive	2	87.1 ± 5.0	NB
P	<i>Impatiens pallida</i>	Pale Jewelweed				S2	2 May Be At Risk	5	75.3 ± 0.0	NS
P	<i>Arabis drummondii</i>	Drummond's Rockcress				S2	3 Sensitive	13	32.7 ± 0.0	NB
P	<i>Sagina nodosa</i>	Knotted Pearlwort				S2	3 Sensitive	2	97.6 ± 0.0	PE
P	<i>Sagina nodosa</i> ssp. <i>borealis</i>	Knotted Pearlwort				S2	3 Sensitive	2	97.3 ± 0.0	PE
P	<i>Stellaria longifolia</i>	Long-leaved Starwort				S2	3 Sensitive	9	38.5 ± 1.0	NB
P	<i>Atriplex franktonii</i>	Frankton's Saltbush				S2	4 Secure	7	37.2 ± 0.0	NB
P	<i>Chenopodium rubrum</i>	Red Pigweed				S2	3 Sensitive	10	34.4 ± 0.0	NB
P	<i>Hypericum dissimulatum</i>	Disguised St John's-wort				S2	3 Sensitive	3	66.4 ± 1.0	NB
P	<i>Shepherdia canadensis</i>	Soapberry				S2	3 Sensitive	41	23.0 ± 0.0	NB
P	<i>Oxytropis campestris</i> <i>var. johannensis</i>	Field Locoweed				S2	3 Sensitive	13	86.7 ± 1.0	NS
P	<i>Quercus macrocarpa</i>	Bur Oak				S2	2 May Be At Risk	15	88.6 ± 1.0	NB
P	<i>Gentiana linearis</i>	Narrow-Leaved Gentian				S2	3 Sensitive	1	52.6 ± 50.0	NB
P	<i>Myriophyllum humile</i>	Low Water Milfoil				S2	3 Sensitive	1	51.6 ± 1.0	NB
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2	4 Secure	8	63.6 ± 0.0	NB
P	<i>Nuphar lutea</i> ssp. <i>rubrodisca</i>	Red-disked Yellow Pond-lily				S2	3 Sensitive	9	8.7 ± 0.0	NB
P	<i>Polygala paucifolia</i>	Fringed Milkwort				S2	3 Sensitive	5	61.2 ± 1.0	NB
P	<i>Polygonum amphibium</i> <i>var. emersum</i>	Water Smartweed				S2	3 Sensitive	3	92.8 ± 1.0	NB
P	<i>Polygonum careyi</i>	Carey's Smartweed				S2	3 Sensitive	9	38.2 ± 1.0	NB
P	<i>Anemone parviflora</i>	Small-flowered Anemone				S2	3 Sensitive	8	27.7 ± 0.0	NB
P	<i>Hepatica nobilis</i> var. <i>obtusata</i>	Round-lobed Hepatica				S2	3 Sensitive	1	81.7 ± 1.0	NB
P	<i>Crataegus scabrada</i>	Rough Hawthorn				S2	3 Sensitive	7	48.6 ± 0.0	NB
P	<i>Crataegus succulenta</i>	Fleshy Hawthorn				S2	3 Sensitive	2	77.8 ± 0.0	PE
P	<i>Euphrasia randii</i>	Rand's Eyebright				S2	2 May Be At Risk	3	71.5 ± 0.0	NB
P	<i>Scrophularia lanceolata</i>	Lance-leaved Figwort				S2	3 Sensitive	2	63.4 ± 1.0	NB

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
P	<i>Dirca palustris</i>	Eastern Leatherwood				S2	2 May Be At Risk	1	18.2 ± 1.0	NB
P	<i>Sagittaria calycina</i> var. <i>spongiosa</i>	Long-lobed Arrowhead				S2	4 Secure	67	50.5 ± 0.0	NB
P	<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage				S2	3 Sensitive	116	54.9 ± 1.0	NS
P	<i>Carex comosa</i>	Bearded Sedge				S2	2 May Be At Risk	7	47.5 ± 0.0	NB
P	<i>Carex granularis</i>	Limestone Meadow Sedge				S2	3 Sensitive	10	35.5 ± 0.0	NB
P	<i>Carex gynocrates</i>	Northern Bog Sedge				S2	3 Sensitive	1	63.4 ± 1.0	NB
P	<i>Carex hirtifolia</i>	Pubescent Sedge				S2	3 Sensitive	7	31.3 ± 5.0	NB
P	<i>Carex livida</i> var. <i>radicaulis</i>	Livid Sedge				S2	3 Sensitive	8	53.9 ± 0.0	NS
P	<i>Carex plantaginea</i>	Plantain-Leaved Sedge				S2	3 Sensitive	1	62.3 ± 0.0	NB
P	<i>Carex rostrata</i>	Narrow-leaved Beaked Sedge				S2	3 Sensitive	2	52.9 ± 0.0	NB
P	<i>Carex sprengei</i>	Longbeak Sedge				S2	3 Sensitive	2	70.4 ± 0.0	NB
P	<i>Carex tenuiflora</i>	Sparse-Flowered Sedge				S2	2 May Be At Risk	9	33.7 ± 10.0	NB
P	<i>Carex albicans</i> var. <i>emmonsii</i>	White-tinged Sedge				S2	3 Sensitive	9	35.6 ± 0.0	NB
P	<i>Cyperus squarrosus</i>	Awned Flatsedge				S2	3 Sensitive	8	93.5 ± 0.0	NB
P	<i>Eriophorum gracile</i>	Slender Cottongrass				S2	2 May Be At Risk	49	29.7 ± 0.0	NB
P	<i>Blysmus rufus</i>	Red Bulrush				S2	3 Sensitive	31	67.7 ± 0.0	NB
P	<i>Juncus vaseyi</i>	Vasey Rush				S2	3 Sensitive	12	5.6 ± 0.0	NB
P	<i>Allium tricoccum</i>	Wild Leek				S2	2 May Be At Risk	13	31.1 ± 5.0	NB
P	<i>Calypso bulbosa</i> var. <i>americana</i>	Calypso				S2	2 May Be At Risk	2	31.2 ± 5.0	NB
P	<i>Coeloglossum viride</i> var. <i>virescens</i>	Long-bracted Frog Orchid				S2	2 May Be At Risk	6	21.9 ± 10.0	NB
P	<i>Goodyera oblongifolia</i>	Menzies' Rattlesnake-plantain				S2	3 Sensitive	1	85.3 ± 0.0	PE
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2	3 Sensitive	4	31.3 ± 1.0	NB
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S2	2 May Be At Risk	6	35.9 ± 0.0	NB
P	<i>Dichanthelium linearifolium</i>	Narrow-leaved Panic Grass				S2	3 Sensitive	1	75.0 ± 0.0	NB
P	<i>Elymus canadensis</i>	Canada Wild Rye				S2	2 May Be At Risk	1	6.8 ± 1.0	NB
P	<i>Piptatherum canadense</i>	Canada Rice Grass				S2	3 Sensitive	3	18.2 ± 10.0	NB
P	<i>Poa glauca</i>	Glaucon Blue Grass				S2	4 Secure	19	57.0 ± 0.0	NB
P	<i>Puccinellia laurentiana</i>	Nootka Alkali Grass				S2	3 Sensitive	1	81.7 ± 10.0	NB
P	<i>Puccinellia phryganodes</i>	Creeping Alkali Grass				S2	3 Sensitive	2	44.8 ± 1.0	NB
P	<i>Schizachyrium scoparium</i>	Little Bluestem				S2	3 Sensitive	20	82.1 ± 0.0	NB
P	<i>Zizania aquatica</i> var. <i>aquatica</i>	Indian Wild Rice				S2	5 Undetermined	7	52.8 ± 0.0	NB
P	<i>Piptatherum pungens</i>	Slender Rice Grass				S2	2 May Be At Risk	5	32.6 ± 0.0	NB
P	<i>Potamogeton vaseyi</i>	Vasey's Pondweed				S2	3 Sensitive	1	72.2 ± 0.0	PE
P	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort				S2	3 Sensitive	13	33.1 ± 1.0	NB
P	<i>Woodwardia virginica</i>	Virginia Chain Fern				S2	3 Sensitive	8	56.8 ± 0.0	NS
P	<i>Woodsia alpina</i>	Alpine Cliff Fern				S2	3 Sensitive	3	48.1 ± 0.0	NB
P	<i>Lycopodium sitchense</i>	Sitka Clubmoss				S2	3 Sensitive	4	32.4 ± 0.0	NB
P	<i>Selaginella selaginoides</i>	Low Spikemoss				S2	3 Sensitive	8	57.0 ± 0.0	NB
P	<i>Toxicodendron radicans</i>	Poison Ivy				S2?	3 Sensitive	9	46.1 ± 0.0	NB
P	<i>Symphotrichum novi-belgii</i> var. <i>crenifolium</i>	New York Aster				S2?	5 Undetermined	5	50.3 ± 1.0	NB
P	<i>Humulus lupulus</i> var. <i>lupuloides</i>	Common Hop				S2?	3 Sensitive	2	57.0 ± 5.0	NB
P	<i>Rubus recurvicaulis</i>	Arching Dewberry				S2?	4 Secure	6	24.0 ± 1.0	NB

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P	<i>Galium obtusum</i>	Blunt-leaved Bedstraw				S2?	4 Secure	10	32.2 ± 10.0	NB
P	<i>Salix myricoides</i>	Bayberry Willow				S2?	3 Sensitive	2	27.4 ± 1.0	NB
P	<i>Carex vacillans</i>	Estuarine Sedge				S2?	3 Sensitive	1	50.2 ± 0.0	NB
P	<i>Platanthera huronensis</i>	Fragrant Green Orchid				S2?	5 Undetermined	1	79.9 ± 10.0	NS
P	<i>Solidago altissima</i>	Tall Goldenrod				S2S3	4 Secure	1	42.7 ± 0.0	NB
P	<i>Barbarea orthoceras</i>	American Yellow Rocket				S2S3	3 Sensitive	4	65.6 ± 1.0	NB
P	<i>Ceratophyllum echinatum</i>	Prickly Hornwort				S2S3	3 Sensitive	23	10.1 ± 0.0	NB
P	<i>Callitriche hermaphroditica</i>	Northern Water-starwort				S2S3	4 Secure	8	41.2 ± 0.0	NB
P	<i>Elatine americana</i>	American Waterwort				S2S3	3 Sensitive	7	47.4 ± 0.0	NB
P	<i>Bartonia paniculata</i>	Branched Bartonia				S2S3	3 Sensitive	1	59.6 ± 0.0	NS
P	<i>Bartonia paniculata ssp. iodandra</i>	Branched Bartonia				S2S3	3 Sensitive	24	50.8 ± 0.0	NB
P	<i>Geranium robertianum</i>	Herb Robert				S2S3	4 Secure	79	46.2 ± 0.0	NB
P	<i>Myriophyllum quitense</i>	Andean Water Milfoil				S2S3	4 Secure	7	97.6 ± 0.0	NB
P	<i>Epilobium coloratum</i>	Purple-veined Willowherb				S2S3	3 Sensitive	5	45.9 ± 1.0	NB
P	<i>Rumex maritimus var. persicarioides</i>	Peach-leaved Dock				S2S3	5 Undetermined	1	76.4 ± 0.0	NB
P	<i>Rumex pallidus</i>	Seabeach Dock				S2S3	3 Sensitive	5	51.9 ± 0.0	NB
P	<i>Rubus pensilvanicus</i>	Pennsylvania Blackberry				S2S3	4 Secure	20	21.9 ± 0.0	NB
P	<i>Galium labradoricum</i>	Labrador Bedstraw				S2S3	3 Sensitive	13	24.5 ± 0.0	NB
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3	4 Secure	10	4.2 ± 10.0	NB
P	<i>Corallorhiza maculata var. occidentalis</i>	Spotted Coralroot				S2S3	3 Sensitive	6	14.0 ± 10.0	NB
P	<i>Listera auriculata</i>	Auricled Twayblade				S2S3	3 Sensitive	1	58.8 ± 0.0	NB
P	<i>Spiranthes cernua</i>	Nodding Ladies'-Tresses				S2S3	3 Sensitive	16	31.6 ± 0.0	NB
P	<i>Eragrostis pectinacea</i>	Tufted Love Grass				S2S3	4 Secure	6	4.2 ± 1.0	NB
P	<i>Stuckenia filiformis ssp. alpina</i>	Thread-leaved Pondweed				S2S3	3 Sensitive	2	35.2 ± 1.0	NB
P	<i>Stuckenia pectinata</i>	Sago Pondweed				S2S3	3 Sensitive	34	31.3 ± 5.0	NB
P	<i>Potamogeton praelongus</i>	White-stemmed Pondweed				S2S3	4 Secure	10	53.3 ± 0.0	NS
P	<i>Ophioglossum pusillum</i>	Northern Adder's-tongue				S2S3	3 Sensitive	5	52.0 ± 1.0	NB
P	<i>Panax trifolius</i>	Dwarf Ginseng				S3	3 Sensitive	20	17.2 ± 0.0	NB
P	<i>Artemisia campestris</i>	Field Wormwood				S3	4 Secure	20	65.0 ± 0.0	NB
P	<i>Artemisia campestris ssp. caudata</i>	Field Wormwood				S3	4 Secure	47	64.4 ± 10.0	NB
P	<i>Bidens hyperborea</i>	Estuary Beggarticks				S3	4 Secure	30	32.5 ± 0.0	NB
P	<i>Bidens hyperborea var. hyperborea</i>	Estuary Beggarticks				S3	4 Secure	3	32.2 ± 1.0	NB
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane				S3	4 Secure	43	23.9 ± 1.0	NB
P	<i>Prenanthes racemosa</i>	Glaucous Rattlesnakeroot				S3	4 Secure	22	81.7 ± 0.0	NB
P	<i>Symphotrichum boreale</i>	Boreal Aster				S3	3 Sensitive	14	24.4 ± 0.0	NB
P	<i>Betula pumila</i>	Bog Birch				S3	4 Secure	59	20.2 ± 0.0	NB
P	<i>Arabis glabra</i>	Tower Mustard				S3	5 Undetermined	1	71.4 ± 0.0	NB
P	<i>Arabis hirsuta var. pycnocarpa</i>	Western Hairy Rockcress				S3	4 Secure	11	29.3 ± 0.0	NB
P	<i>Cardamine maxima</i>	Large Toothwort				S3	4 Secure	15	71.5 ± 0.0	NB
P	<i>Subularia aquatica var. americana</i>	Water Awlwort				S3	4 Secure	2	52.4 ± 0.0	NB
P	<i>Stellaria humifusa</i>	Saltmarsh Starwort				S3	4 Secure	17	28.7 ± 5.0	NB
P	<i>Hudsonia tomentosa</i>	Woolly Beach-heath				S3	4 Secure	211	39.4 ± 0.0	NB
P	<i>Cornus amomum ssp. obliqua</i>	Pale Dogwood				S3	3 Sensitive	45	82.2 ± 0.0	NB
P	<i>Crassula aquatica</i>	Water Pygmyweed				S3	4 Secure	6	52.2 ± 0.0	NB

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P	<i>Rhodiola rosea</i>	Roseroot				S3	4 Secure	22	53.0 ± 0.0	NB
P	<i>Penthorum sedoides</i>	Ditch Stonecrop				S3	4 Secure	3	80.2 ± 1.0	NB
P	<i>Elatine minima</i>	Small Waterwort				S3	4 Secure	2	52.9 ± 0.0	NB
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill				S3	4 Secure	16	4.7 ± 5.0	NB
P	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S3	4 Secure	9	43.2 ± 0.0	NB
P	<i>Myriophyllum heterophyllum</i>	Variable-leaved Water Milfoil				S3	4 Secure	24	81.7 ± 0.0	NB
P	<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil				S3	4 Secure	15	42.4 ± 0.0	NB
P	<i>Teucrium canadense</i>	Canada Germander				S3	3 Sensitive	107	29.7 ± 0.0	NB
P	<i>Nuphar lutea ssp. pumila</i>	Small Yellow Pond-lily				S3	4 Secure	5	41.1 ± 0.0	NB
P	<i>Epilobium hornemannii</i>	Hornemann's Willowherb				S3	4 Secure	3	58.4 ± 1.0	NB
P	<i>Epilobium hornemannii ssp. hornemannii</i>	Hornemann's Willowherb				S3	4 Secure	1	58.3 ± 0.0	NB
P	<i>Epilobium strictum</i>	Downy Willowherb				S3	4 Secure	20	25.2 ± 0.0	NB
P	<i>Polygala sanguinea</i>	Blood Milkwort				S3	3 Sensitive	36	26.4 ± 5.0	NB
P	<i>Polygonum arifolium</i>	Halberd-leaved Tearthumb				S3	4 Secure	96	22.3 ± 0.0	NB
P	<i>Polygonum punctatum</i>	Dotted Smartweed				S3	4 Secure	4	41.7 ± 5.0	NB
P	<i>Polygonum punctatum var. confertiflorum</i>	Dotted Smartweed				S3	4 Secure	16	44.5 ± 1.0	NB
P	<i>Polygonum scandens</i>	Climbing False Buckwheat				S3	4 Secure	49	38.2 ± 1.0	NB
P	<i>Littorella uniflora</i>	American Shoreweed				S3	4 Secure	2	95.7 ± 1.0	NB
P	<i>Samolus valerandi ssp. parviflorus</i>	Seaside Brookweed				S3	4 Secure	115	24.8 ± 0.0	NB
P	<i>Pyrola minor</i>	Lesser Pyrola				S3	4 Secure	5	48.0 ± 1.0	NB
P	<i>Clematis occidentalis</i>	Purple Clematis				S3	4 Secure	8	32.2 ± 0.0	NB
P	<i>Ranunculus gmelinii</i>	Gmelin's Water Buttercup				S3	4 Secure	36	11.4 ± 1.0	NB
P	<i>Thalictrum venulosum</i>	Northern Meadow-rue				S3	4 Secure	5	94.3 ± 1.0	NB
P	<i>Amelanchier canadensis</i>	Canada Serviceberry				S3	4 Secure	19	30.3 ± 0.0	NB
P	<i>Rosa palustris</i>	Swamp Rose				S3	4 Secure	5	47.3 ± 0.0	NB
P	<i>Rubus occidentalis</i>	Black Raspberry				S3	4 Secure	2	93.0 ± 0.0	NB
P	<i>Sanguisorba canadensis</i>	Canada Burnet				S3	4 Secure	15	54.4 ± 0.0	NB
P	<i>Galium boreale</i>	Northern Bedstraw				S3	4 Secure	8	58.4 ± 0.0	NB
P	<i>Salix interior</i>	Sandbar Willow				S3	4 Secure	1	21.6 ± 1.0	NB
P	<i>Salix nigra</i>	Black Willow				S3	3 Sensitive	43	76.1 ± 50.0	NB
P	<i>Salix pedicellaris</i>	Bog Willow				S3	4 Secure	40	23.9 ± 0.0	NB
P	<i>Comandra umbellata</i>	Bastard's Toadflax				S3	4 Secure	46	29.9 ± 0.0	NB
P	<i>Limosella australis</i>	Southern Mudwort				S3	4 Secure	67	24.8 ± 0.0	NB
P	<i>Veronica serpyllifolia ssp. humifusa</i>	Thyme-Leaved Speedwell				S3	4 Secure	8	52.8 ± 0.0	NB
P	<i>Pilea pumila</i>	Dwarf Clearweed				S3	4 Secure	29	41.4 ± 0.0	NB
P	<i>Viola adunca</i>	Hooked Violet				S3	4 Secure	7	33.3 ± 0.0	NB
P	<i>Viola nephrophylla</i>	Northern Bog Violet				S3	4 Secure	3	74.9 ± 1.0	NB
P	<i>Carex aquatilis</i>	Water Sedge				S3	4 Secure	22	36.2 ± 0.0	NB
P	<i>Carex arcta</i>	Northern Clustered Sedge				S3	4 Secure	13	31.3 ± 5.0	NB
P	<i>Carex atratiformis</i>	Scabrous Black Sedge				S3	4 Secure	3	85.0 ± 0.0	NS
P	<i>Carex capillaris</i>	Hairlike Sedge				S3	4 Secure	15	57.0 ± 0.0	NB
P	<i>Carex chordorrhiza</i>	Creeping Sedge				S3	4 Secure	55	42.8 ± 0.0	NB
P	<i>Carex conoidea</i>	Field Sedge				S3	4 Secure	10	35.5 ± 0.0	NB
P	<i>Carex eburnea</i>	Bristle-leaved Sedge				S3	4 Secure	2	30.8 ± 100.0	NB
P	<i>Carex exilis</i>	Coastal Sedge				S3	4 Secure	6	61.7 ± 0.0	NS
P	<i>Carex garberi</i>	Garber's Sedge				S3	3 Sensitive	1	34.1 ± 0.0	NB
P	<i>Carex haydenii</i>	Hayden's Sedge				S3	4 Secure	7	22.5 ± 0.0	NB
P	<i>Carex lupulina</i>	Hop Sedge				S3	4 Secure	23	51.9 ± 1.0	NB

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P	<i>Carex michauxiana</i>	Michaux's Sedge				S3	4 Secure	11	41.1 ± 1.0	NB
P	<i>Carex ormostachya</i>	Necklace Spike Sedge				S3	4 Secure	5	22.6 ± 1.0	NB
P	<i>Carex rosea</i>	Rosy Sedge				S3	4 Secure	19	60.5 ± 0.0	NB
P	<i>Carex tenera</i>	Tender Sedge				S3	4 Secure	21	4.1 ± 0.0	NB
P	<i>Carex tuckermanii</i>	Tuckerman's Sedge				S3	4 Secure	21	32.1 ± 5.0	NB
P	<i>Carex wiegandii</i>	Wiegand's Sedge				S3	4 Secure	115	7.9 ± 0.0	NB
P	<i>Carex recta</i>	Estuary Sedge				S3	4 Secure	14	27.5 ± 0.0	NB
P	<i>Cyperus dentatus</i>	Toothed Flatsedge				S3	4 Secure	87	57.5 ± 1.0	NB
P	<i>Cyperus esculentus</i>	Perennial Yellow Nutsedge				S3	4 Secure	12	41.3 ± 0.0	NB
P	<i>Eleocharis intermedia</i>	Matted Spikerush				S3	4 Secure	1	51.3 ± 0.0	NB
P	<i>Rhynchospora capitellata</i>	Small-headed Beakrush				S3	4 Secure	2	72.4 ± 0.0	NB
P	<i>Rhynchospora fusca</i>	Brown Beakrush				S3	4 Secure	11	50.8 ± 0.0	NB
P	<i>Trichophorum clintonii</i>	Clinton's Clubrush				S3	4 Secure	20	58.7 ± 0.0	NB
P	<i>Schoenoplectus fluviatilis</i>	River Bulrush				S3	3 Sensitive	6	25.0 ± 1.0	NB
P	<i>Schoenoplectus torreyi</i>	Torrey's Bulrush				S3	4 Secure	5	10.1 ± 0.0	NB
P	<i>Lemna trisulca</i>	Star Duckweed				S3	4 Secure	16	19.9 ± 0.0	NB
P	<i>Cypripedium reginae</i>	Showy Lady's-Slipper				S3	3 Sensitive	29	24.1 ± 0.0	NB
P	<i>Liparis loeselii</i>	Loesel's Twayblade				S3	4 Secure	32	34.0 ± 0.0	NB
P	<i>Platanthera blephariglottis</i>	White Fringed Orchid				S3	4 Secure	163	7.9 ± 0.0	NB
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3	3 Sensitive	19	22.4 ± 1.0	NB
P	<i>Bromus latiglumis</i>	Broad-Glumed Brome				S3	3 Sensitive	4	30.6 ± 0.0	NB
P	<i>Calamagrostis pickeringii</i>	Pickering's Reed Grass				S3	4 Secure	7	33.2 ± 0.0	NB
P	<i>Dichanthelium depauperatum</i>	Starved Panic Grass				S3	4 Secure	21	46.3 ± 0.0	NB
P	<i>Heteranthera dubia</i>	Water Stargrass				S3	4 Secure	3	93.6 ± 0.0	NB
P	<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed				S3	4 Secure	31	39.3 ± 0.0	NB
P	<i>Potamogeton richardsonii</i>	Richardson's Pondweed				S3	3 Sensitive	3	90.7 ± 0.0	NB
P	<i>Xyris montana</i>	Northern Yellow-Eyed-Grass				S3	4 Secure	90	18.0 ± 0.0	NB
P	<i>Zannichellia palustris</i>	Horned Pondweed				S3	4 Secure	42	24.7 ± 0.0	NB
P	<i>Adiantum pedatum</i>	Northern Maidenhair Fern				S3	4 Secure	1	81.7 ± 1.0	NB
P	<i>Cryptogramma stelleri</i>	Steller's Rockbrake				S3	4 Secure	1	89.9 ± 0.0	NB
P	<i>Asplenium trichomanes-ramosum</i>	Green Spleenwort				S3	4 Secure	10	33.1 ± 1.0	NB
P	<i>Dryopteris fragrans</i> var. <i>remotiuscula</i>	Fragrant Wood Fern				S3	4 Secure	46	47.0 ± 0.0	NB
P	<i>Woodsia glabella</i>	Smooth Cliff Fern				S3	4 Secure	24	47.0 ± 0.0	NB
P	<i>Isoetes tuckermanii</i>	Tuckerman's Quillwort				S3	4 Secure	4	50.8 ± 0.0	NB
P	<i>Lycopodium sabinifolium</i>	Ground-Fir				S3	4 Secure	16	30.9 ± 0.0	NB
P	<i>Huperzia appalachiana</i>	Appalachian Fir-Clubmoss				S3	3 Sensitive	24	58.7 ± 0.0	NB
P	<i>Botrychium dissectum</i>	Cut-leaved Moonwort				S3	4 Secure	8	27.3 ± 1.0	NB
P	<i>Botrychium lanceolatum</i> var. <i>angustisegmentum</i>	Lance-Leaf Grape-Fern				S3	3 Sensitive	9	24.6 ± 5.0	NB
P	<i>Botrychium simplex</i>	Least Moonwort				S3	4 Secure	5	41.0 ± 0.0	NB
P	<i>Polypodium appalachianum</i>	Appalachian Polypody				S3	4 Secure	18	27.7 ± 1.0	NB
P	<i>Crataegus submollis</i>	Quebec Hawthorn				S3?	3 Sensitive	5	92.7 ± 1.0	NB
P	<i>Mertensia maritima</i>	Sea Lungwort				S3S4	4 Secure	7	44.4 ± 0.0	NB
P	<i>Lobelia kalmii</i>	Brook Lobelia				S3S4	4 Secure	2	90.2 ± 10.0	NB
P	<i>Suaeda calceoliformis</i>	Horned Sea-blite				S3S4	4 Secure	35	5.8 ± 5.0	NB

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
P	<i>Myriophyllum sibiricum</i>	Siberian Water Milfoil				S3S4	4 Secure	9	55.9 ± 0.0	NS
P	<i>Stachys pilosa</i>	Hairy Hedge-Nettle				S3S4	5 Undetermined	2	97.5 ± 1.0	NB
P	<i>Utricularia gibba</i>	Humped Bladderwort				S3S4	4 Secure	3	45.2 ± 0.0	NB
P	<i>Rumex maritimus</i>	Sea-Side Dock				S3S4	4 Secure	61	2.5 ± 1.0	NB
P	<i>Rumex maritimus</i> var. <i>fueginus</i>	Tierra del Fuego Dock				S3S4	4 Secure	19	4.1 ± 0.0	NB
P	<i>Rubus chamaemorus</i>	Cloudberry				S3S4	4 Secure	103	17.7 ± 0.0	NB
P	<i>Geocaulon lividum</i>	Northern Comandra				S3S4	4 Secure	39	14.8 ± 0.0	NB
P	<i>Juniperus horizontalis</i>	Creeping Juniper				S3S4	4 Secure	14	22.2 ± 1.0	NB
P	<i>Cladium mariscoides</i>	Smooth Twigrush				S3S4	4 Secure	7	46.1 ± 0.0	NB
P	<i>Eriophorum russeolum</i>	Russet Cottongrass				S3S4	4 Secure	200	13.3 ± 0.0	NB
P	<i>Triglochin gaspensis</i>	Gasp Arrowgrass				S3S4	4 Secure	63	36.3 ± 0.0	NB
P	<i>Spirodela polyrrhiza</i>	Great Duckweed				S3S4	4 Secure	15	41.7 ± 0.0	NB
P	<i>Corallorhiza maculata</i>	Spotted Coralroot				S3S4	3 Sensitive	15	27.3 ± 1.0	NB
P	<i>Calamagrostis stricta</i>	Slim-stemmed Reed Grass				S3S4	4 Secure	25	27.7 ± 2.0	NB
P	<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Slim-stemmed Reed Grass				S3S4	4 Secure	6	54.1 ± 0.0	NS
P	<i>Calamagrostis stricta</i> var. <i>stricta</i>	Slim-stemmed Reed Grass				S3S4	4 Secure	8	67.3 ± 0.0	NB
P	<i>Distichlis spicata</i>	Salt Grass				S3S4	4 Secure	81	26.4 ± 5.0	NB
P	<i>Potamogeton oakesianus</i>	Oakes' Pondweed				S3S4	4 Secure	14	15.6 ± 0.0	NB
P	<i>Montia fontana</i>	Water Blinks				SH	2 May Be At Risk	4	27.7 ± 1.0	NB
P	<i>Agalinis maritima</i>	Saltmarsh Agalinis				SX	0.1 Extirpated	2	71.5 ± 50.0	NB

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The recipient of these data shall acknowledge the ACCDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

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Table C.1 AC CDC Results: SAR and SOCC Recorded within 5 km of the PDA

Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking ¹	AC CDC S-Rank ²	General Status Rank
Birds						
great cormorant	<i>Phalacrocorax carbo</i>				S2N,S2M	Secure
least bittern	<i>Ixobrychus exilis</i>	T	T	T	S1S2B,S1S2M	At Risk
green heron	<i>Butorides virescens</i>				S1S2B,S1S2M	Sensitive
snow goose	<i>Chen caerulescens</i>				S2M	Secure
northern pintail	<i>Anas acuta</i>				S3B,S5M	Sensitive
northern shoveler	<i>Anas clypeata</i>				S2S3B,S2S3M	Secure
gadwall	<i>Anas strepera</i>				S2B,S3M	Secure
lesser scaup	<i>Aythya affinis</i>				S1B,S4M	Secure
black scoter	<i>Melanitta nigra</i>				S3M,S1S2N	Sensitive
Barrow's goldeneye - eastern pop.	<i>Bucephala islandica</i> (Eastern pop.)	SC	SC	SC	S2M,S2N	Sensitive
turkey vulture	<i>Cathartes aura</i>				S3B,S3M	Secure
Virginia rail	<i>Rallus limicola</i>				S3B,S3M	Sensitive
American coot	<i>Fulica americana</i>	NAR			S1S2B,S1S2M	Sensitive
killdeer	<i>Charadrius vociferus</i>				S3B,S3M	Sensitive
solitary sandpiper	<i>Tringa solitaria</i>				S2B,S5M	Secure
spotted sandpiper	<i>Actitis macularius</i>				S3S4B,S5M	Secure
pectoral sandpiper	<i>Calidris melanotos</i>				S3S4M	Secure
Wilson's snipe	<i>Gallinago delicata</i>				S3S4B,S5M	Secure
black-headed gull	<i>Chroicocephalus ridibundus</i>				S1N,S2M	Sensitive
ring-billed gull	<i>Larus delawarensis</i>				S3S4B,S5M	Secure

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Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking ¹	AC CDC S-Rank ²	General Status Rank
glaucous gull	<i>Larus hyperboreus</i>				S2N,S2M	Secure
common tern	<i>Sterna hirundo</i>	NAR			S3B,SUM	Sensitive
black tern	<i>Chlidonias niger</i>	NAR			S2B,S2M	Sensitive
snowy owl	<i>Bubo scandiacus</i>	NAR			S1N,S2S3M	Secure
common nighthawk	<i>Chordeiles minor</i>	T	T	T	S3B,S4M	At Risk
whip-poor-will	<i>Caprimulgus vociferus</i>	T	T	T	S2B,S2M	At Risk
chimney swift	<i>Chaetura pelagica</i>	T	T	T	S2S3B,S2M	At Risk
eastern wood-pewee	<i>Contopus virens</i>	SC		SC	S4B,S4M	Secure
willow flycatcher	<i>Empidonax traillii</i>				S1S2B,S1S2M	Sensitive
eastern kingbird	<i>Tyrannus tyrannus</i>				S3S4B,S3S4M	Sensitive
horned lark	<i>Eremophila alpestris</i>				S1B,S4N,S5M	May Be At Risk
bank swallow	<i>Riparia riparia</i>	T			S2S3B,S2S3M	Sensitive
cliff swallow	<i>Petrochelidon pyrrhonota</i>				S2S3B,S2S3M	Sensitive
barn swallow	<i>Hirundo rustica</i>	T		T	S2B,S2M	Sensitive
marsh wren	<i>Cistothorus palustris</i>				S2B,S2M	Sensitive
northern mockingbird	<i>Mimus polyglottos</i>				S2B,S2M	Sensitive
yellow-throated vireo	<i>Vireo flavifrons</i>				S1?B,S1?M	Accidental
warbling vireo	<i>Vireo gilvus</i>				S3B,S3M	Secure
cape may warbler	<i>Dendroica tigrina</i>				S3B,S4S5M	Secure
Canada warbler	<i>Wilsonia canadensis</i>	T	T	T	S3B,S3M	At Risk
scarlet tanager	<i>Piranga olivacea</i>				S3B,S3M	Secure
vesper sparrow	<i>Pooecetes gramineus</i>				S2B,S2M	May Be At Risk

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Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking ¹	AC CDC S-Rank ²	General Status Rank
bobolink	<i>Dolichonyx oryzivorus</i>	T		T	S3B,S3M	Sensitive
brown-headed cowbird	<i>Molothrus ater</i>				S3B,S3M	May Be At Risk
Baltimore oriole	<i>Icterus galbula</i>				S3B,S3M	Secure
Fish						
American Eel	<i>Anguilla rostrata</i>	T		T	S4	Secure
Atlantic salmon	<i>Salmo salar</i>				S2S3	May Be At Risk
Invertebrates						
a ground beetle	<i>Carabus serratus</i>				S3	Secure
transverse lady beetle	<i>Coccinella transversoguttata richardsoni</i>				SH	May Be At Risk
parenthesis lady beetle	<i>Hippodamia parenthesis</i>				S3	Secure
bronze copper	<i>Lycaena hyllus</i>				S3	Sensitive
Acadian hairstreak	<i>Satyrium acadica</i>				S3	Secure
striped hairstreak	<i>Satyrium liparops</i>				S3S4	Secure
striped hairstreak	<i>Satyrium liparops strigosum</i>				S3S4	Secure
Aphrodite fritillary	<i>Speyeria aphrodite</i>				S3	Secure
Compton tortoiseshell	<i>Nymphalis l-album</i>				S3	Secure
zebra clubtail	<i>Stylurus scudderi</i>				S3	Secure
Plants						
Bicknell's crane's-bill	<i>Geranium bicknellii</i>				S3	Secure
sea-side dock	<i>Rumex maritimus</i>				S3S4	Secure
Tierra del Fuego dock	<i>Rumex maritimus var. fueginus</i>				S3S4	Secure

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Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking ¹	AC CDC S-Rank ²	General Status Rank
lesser brown sedge	<i>Carex adusta</i>				S2S3	Secure
tender sedge	<i>Carex tenera</i>				S3	Secure
tufted love grass	<i>Eragrostis pectinacea</i>				S2S3	Secure

Notes:

¹T = threatened, SC = special concern, NAR = not at risk

²S1 = critically imperiled, S2 = imperiled, S3 = vulnerable, S4 = apparently secure, S5 = secure, and SNA = not applicable. S#S# = range rank, i.e., the status is uncertain but between two listed ranks (AC CDC 2017)

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Table C.2 MBBA Results and Highest Breeding Evidence for Atlas Square 20LS50 (Second Atlas, 2006-2010)

Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking	AC CDC S-Rank ²	General Status Rank	Highest Breeding Evidence
pieb-billed grebe	<i>Podilymbus podiceps</i>				S4B,S4M	Secure	Confirmed
American bittern	<i>Botaurus lentiginosus</i>				S4B,S4S5M	Secure	Probable
least bittern	<i>Ixobrychus exilis</i>	T	T	Threatened	S1S2B,S1S2M	At Risk	Probable
Canada goose	<i>Branta canadensis</i>				SNAB,S5M	Secure	Confirmed
wood duck	<i>Aix sponsa</i>				S4B,S4M	Secure	Possible
green-winged teal	<i>Anas crecca</i>				S4B,S5M	Secure	Confirmed
American black duck	<i>Anas rubripes</i>				S5B,S4N,S5M	Secure	Confirmed
mallard	<i>Anas platyrhynchos</i>				S5B,S4N,S5M	Secure	Confirmed
northern pintail	<i>Anas acuta</i>				S3B,S5M	Sensitive	Confirmed
blue-winged teal	<i>Anas discors</i>				S4B,S4M	Secure	Confirmed
northern shoveler	<i>Anas clypeata</i>				S2S3B,S2S3M	Secure	Confirmed
gadwall	<i>Anas strepera</i>				S2B,S3M	Secure	Possible
American wigeon	<i>Anas americana</i>				S4B,S4S5M	Secure	Confirmed
ring-necked duck	<i>Aythya collaris</i>				S5B,S5M	Secure	Confirmed
hooded merganser	<i>Lophodytes cucullatus</i>				S4B,S5M	Secure	Possible
osprey	<i>Pandion haliaetus</i>				S4S5B,S5M	Secure	Confirmed
bald eagle	<i>Haliaeetus leucocephalus</i>	NAR		Endangered	S4	At Risk	Confirmed
northern harrier	<i>Circus cyaneus</i>	NAR			S4B,S4S5M	Secure	Confirmed
northern goshawk	<i>Accipiter gentilis</i>	NAR			S4	Secure	Possible
broad-winged hawk	<i>Buteo platypterus</i>				S5B,S5M	Secure	Possible
American kestrel	<i>Falco sparverius</i>				S4B,S4S5M	Secure	Possible

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Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking	AC CDC S-Rank ²	General Status Rank	Highest Breeding Evidence
merlin	<i>Falco columbarius</i>	NAR			S5B,S5M	Secure	Confirmed
ring-necked pheasant	<i>Phasianus colchicus</i>				SNA	Exotic	Probable
Virginia rail	<i>Rallus limicola</i>				S3B,S3M	Sensitive	Confirmed
sora	<i>Porzana carolina</i>				S4B,S4M	Secure	Confirmed
American coot	<i>Fulica americana</i>	NAR			S1S2B,S1S2M	Sensitive	Possible
killdeer	<i>Charadrius vociferus</i>				S3B,S3M	Sensitive	Possible
spotted sandpiper	<i>Actitis macularius</i>				S3S4B,S5M	Secure	Probable
Wilson's snipe	<i>Gallinago delicata</i>				S3S4B,S5M	Secure	Probable
American woodcock	<i>Scolopax minor</i>				S5B,S5M	Secure	Probable
black tern	<i>Chlidonias niger</i>	NAR			S2B,S2M	Sensitive	Possible
rock pigeon	<i>Columba livia</i>				SNA	Exotic	Confirmed
mourning dove	<i>Zenaida macroura</i>				S5B,S5M,S4N	Secure	Confirmed
eastern screech-owl	<i>Megascops asio</i>	NAR			SNA	Accidental	Probable
great horned owl	<i>Bubo virginianus</i>				S4	Secure	Probable
common nighthawk	<i>Chordeiles minor</i>	T	T	Threatened	S3B,S4M	At Risk	Possible
ruby-throated hummingbird	<i>Archilochus colubris</i>				S5B,S5M	Secure	Probable
belted kingfisher	<i>Megaceryle alcyon</i>				S5B,S5M	Secure	Probable
yellow-bellied sapsucker	<i>Sphyrapicus varius</i>				S5B,S5M	Secure	Confirmed
downy woodpecker	<i>Picoides pubescens</i>				S5	Secure	Confirmed
hairy woodpecker	<i>Picoides villosus</i>				S5	Secure	Confirmed
northern flicker	<i>Colaptes auratus</i>				S5B,S5M	Secure	Confirmed
pileated woodpecker	<i>Dryocopus pileatus</i>				S5	Secure	Possible

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Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking	AC CDC S-Rank ²	General Status Rank	Highest Breeding Evidence
eastern wood-pewee	<i>Contopus virens</i>	SC	SC	Special Concern	S4B,S4M	Secure	Confirmed
alder flycatcher	<i>Empidonax alnorum</i>				S5B,S5M	Secure	Confirmed
willow flycatcher	<i>Empidonax traillii</i>				S1S2B,S1S2M	Sensitive	Probable
least flycatcher	<i>Empidonax minimus</i>				S5B,S5M	Secure	Possible
eastern phoebe	<i>Sayornis phoebe</i>				S5B,S5M	Secure	Confirmed
eastern kingbird	<i>Tyrannus tyrannus</i>				S3S4B,S3S4M	Sensitive	Confirmed
tree swallow	<i>Tachycineta bicolor</i>				S4B,S4M	Secure	Confirmed
bank swallow	<i>Riparia riparia</i>	T	T		S2S3B,S2S3M	Sensitive	Confirmed
cliff swallow	<i>Petrochelidon pyrrhonota</i>				S2S3B,S2S3M	Sensitive	Confirmed
barn swallow	<i>Hirundo rustica</i>	T	T	Threatened	S2B,S2M	Sensitive	Confirmed
gray jay	<i>Perisoreus canadensis</i>				S4	Secure	Possible
blue jay	<i>Cyanocitta cristata</i>				S5	Secure	Confirmed
American crow	<i>Corvus brachyrhynchos</i>				S5	Secure	Confirmed
common raven	<i>Corvus corax</i>				S5	Secure	Probable
black-capped chickadee	<i>Poecile atricapilla</i>				S5	Secure	Confirmed
red-breasted nuthatch	<i>Sitta canadensis</i>				S5	Secure	Possible
white-breasted nuthatch	<i>Sitta carolinensis</i>				S4	Secure	Possible
marsh wren	<i>Cistothorus palustris</i>				S2B,S2M	Sensitive	Confirmed
golden-crowned kinglet	<i>Regulus satrapa</i>				S5	Secure	Confirmed
ruby-crowned kinglet	<i>Regulus calendula</i>				S4B,S5M	Secure	Confirmed

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Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking	AC CDC S-Rank ²	General Status Rank	Highest Breeding Evidence
eastern bluebird	<i>Sialia sialis</i>	NAR			S4B,S4M	Secure	Confirmed
veery	<i>Catharus fuscescens</i>				S4B,S4M	Secure	Possible
Swainson's thrush	<i>Catharus ustulatus</i>				S5B,S5M	Secure	Probable
hermit thrush	<i>Catharus guttatus</i>				S5B,S5M	Secure	Probable
American robin	<i>Turdus migratorius</i>				S5B,S5M	Secure	Confirmed
gray catbird	<i>Dumetella carolinensis</i>				S4B,S4M	Secure	Confirmed
northern mockingbird	<i>Mimus polyglottos</i>				S2B,S2M	Sensitive	Confirmed
cedar waxwing	<i>Bombycilla cedrorum</i>				S5B,S5M	Secure	Confirmed
European starling	<i>Sturnus vulgaris</i>				SNA	Exotic	Confirmed
blue-headed vireo	<i>Vireo solitarius</i>				S5B,S5M	Secure	Confirmed
yellow-throated vireo	<i>Vireo flavifrons</i>				S1?B,S1?M	Accidental	Possible
warbling vireo	<i>Vireo gilvus</i>				S3B,S3M	Secure	Confirmed
red-eyed vireo	<i>Vireo olivaceus</i>				S5B,S5M	Secure	Confirmed
Nashville warbler	<i>Vermivora ruficapilla</i>				S5B,S5M	Secure	Confirmed
northern parula	<i>Parula americana</i>				S5B,S5M	Secure	Probable
yellow warbler	<i>Dendroica petechia</i>				S5B,S5M	Secure	Confirmed
chestnut-sided warbler	<i>Dendroica pensylvanica</i>				S5B,S5M	Secure	Confirmed
magnolia warbler	<i>Dendroica magnolia</i>				S5B,S5M	Secure	Probable
yellow-rumped warbler	<i>Dendroica coronata</i>				S5B,S5M	Secure	Confirmed
black-throated green warbler	<i>Dendroica virens</i>				S5B,S5M	Secure	Probable
blackburnian warbler	<i>Dendroica fusca</i>				S5B,S5M	Secure	Possible
bay-breasted warbler	<i>Dendroica castanea</i>				S4B,S4S5M	Secure	Possible

**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGISTRATION FOR 138 KV TRANSMISSION LINE IN THE MONCTON INDUSTRIAL PARK,
MONCTON, NEW BRUNSWICK**

References

December 15, 2017

Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking	AC CDC S-Rank ²	General Status Rank	Highest Breeding Evidence
black-and-white warbler	<i>Mniotilta varia</i>				S5B,S5M	Secure	Probable
American redstart	<i>Setophaga ruticilla</i>				S5B,S5M	Secure	Confirmed
ovenbird	<i>Seiurus aurocapilla</i>				S5B,S5M	Secure	Confirmed
northern waterthrush	<i>Seiurus noveboracensis</i>				S4B,S5M	Secure	Possible
common yellowthroat	<i>Geothlypis trichas</i>				S5B,S5M	Secure	Confirmed
Wilson's warbler	<i>Wilsonia pusilla</i>				S4B,S5M	Secure	Possible
scarlet tanager	<i>Piranga olivacea</i>				S3B,S3M	Secure	Possible
rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>				S4B,S4M	Sensitive	Probable
chipping sparrow	<i>Spizella passerina</i>				S5B,S5M	Secure	Confirmed
savannah sparrow	<i>Passerculus sandwichensis</i>				S4S5B,S5M	Secure	Confirmed
nelson's sparrow	<i>Ammodramus nelsoni</i>	NAR			S4B,S4M	Secure	Confirmed
song sparrow	<i>Melospiza melodia</i>				S5B,S5M	Secure	Confirmed
swamp sparrow	<i>Melospiza georgiana</i>				S5B,S5M	Secure	Confirmed
white-throated sparrow	<i>Zonotrichia albicollis</i>				S5B,S5M	Secure	Confirmed
dark-eyed junco	<i>Junco hyemalis</i>				S5	Secure	Possible
bobolink	<i>Dolichonyx oryzivorus</i>	T	T	Threatened	S3B,S3M	Sensitive	Confirmed
red-winged blackbird	<i>Agelaius phoeniceus</i>				S4B,S4M	Secure	Confirmed
common grackle	<i>Quiscalus quiscula</i>				S5B,S5M	Secure	Confirmed
Baltimore oriole	<i>Icterus galbula</i>				S3B,S3M	Secure	Confirmed
purple finch	<i>Carpodacus purpureus</i>				S4S5B,SUN,S5M	Secure	Probable

**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGISTRATION FOR 138 KV TRANSMISSION LINE IN THE MONCTON INDUSTRIAL PARK,
MONCTON, NEW BRUNSWICK**

References

December 15, 2017

Common Name	Scientific Name	COSEWIC ¹	SARA ¹	NB Provincial Ranking	AC CDC S-Rank ²	General Status Rank	Highest Breeding Evidence
house finch	<i>Carpodacus mexicanus</i>				SNA	Exotic	Confirmed
American Goldfinch	<i>Carduelis tristis</i>				S5	Secure	Confirmed

Notes:

¹ T = threatened, SC = special concern, NAR = not at risk

² S1 = critically imperiled, S2 = imperiled, S3 = vulnerable, S4 = apparently secure, S5 = secure, and SNA = not applicable. S#S# = range rank, i.e., the status is uncertain but between two listed ranks (AC CDC 2017)

**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGISTRATION FOR 138 KV TRANSMISSION LINE IN THE
MONCTON INDUSTRIAL PARK, MONCTON, NEW BRUNSWICK**

References

December 15, 2017

Appendix D **ABORIGINAL ENGAGEMENT
NOTIFICATION LETTERS**

**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGISTRATION FOR 138 KV TRANSMISSION LINE IN THE
MONCTON INDUSTRIAL PARK, MONCTON, NEW BRUNSWICK**

References

December 15, 2017



Énergie NB Power

October 11, 2017

BY ELECTRONIC MAIL

Chief Tim Paul

Woodstock First Nation

Dear Chief Paul:

As you may know, OrganiGram Inc. has entered into agreement with NB Power to begin necessary studies to build transmission facilities that will deliver 30 MW to its Moncton facility. The electricity will be supplied through a 630 m, 138 kV transmission line connected to an existing line. The line is proposed to be built within the municipal easement along Arsenault Court (where possible) to a customer-owned substation located near the OrganiGram Inc. facility. In addition to the municipal easement, the proposed route crosses six properties and the substation. Five properties are privately held and the sixth is owned by City of Moncton. It is voltage of the line that triggers the need for an Environmental Impact Assessment. Similar work on lower voltage lines occurs daily across the province in interest of safe and reliable electricity. Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. A map is enclosed for your review and orientation to this proposal.

Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. Having said this, Chief Paul, out of courtesy and respect, we do want to make you aware of this proposed work.

Should you wish to have more information about this project, please call Tessa Francis, First Nations Liaison at 458-3079

Yours truly,

NEW BRUNSWICK POWER CORPORATION

Andrea Allen
Director, First Nations Affairs & Ombudsman

Cc:

K. Allen, NB Aboriginal Affairs Secretariat
A. McGathey, NB Power, T. Francis, NB Power
A. MacIntosh, Woodstock First Nation
D. Maguire, Dept. Environment and Local Government



Énergie NB Power

October 11, 2017

BY ELECTRONIC MAIL

Chief Ross Perley, Tobique First Nation

Chief Candice Paul, Saint Mary's First Nation

Chief Gabriel Atwin, Kingsclear First Nation

Chief Shelley Sabattis, Oromocto First Nation

Chief Patricia Bernard, Madawaska Maliseet First Nation

Dear Chiefs:

As you may know, OrganiGram Inc. has entered into agreement with NB Power to begin necessary studies to build transmission facilities that will deliver 30 MW to its Moncton facility. The electricity will be supplied through a 630 m, 138 kV transmission line connected to an existing line. The line is proposed to be built within the municipal easement along Arsenault Court (where possible) to a customer-owned substation located near the OrganiGram Inc. facility. In addition to the municipal easement, the proposed route crosses six properties and the substation. Five properties are privately held and the sixth is owned by City of Moncton. It is voltage of the line that triggers the need for an Environmental Impact Assessment. Similar work on lower voltage lines occurs daily across the province in interest of safe and reliable electricity. Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. A map is enclosed for your review and orientation to this proposal.

NB Power understands that Wolastoqey Nation in New Brunswick is authorized to enter into consultation and engagement with proponents on your behalf and holds regular meetings with WWNB staff to discuss projects. This proposed work has been a topic of those meetings in the recent past. Unless you indicate otherwise, we will continue to provide project information to WWNB as it becomes available, and WWNB can share with you and your communities as appropriate.

In the meantime, should you have any questions please don't hesitate to call Tessa Francis, First Nations Liaison at 458-3079.

Yours truly,

NEW BRUNSWICK POWER CORPORATION



Andrea Allen
Director, First Nations Affairs & Ombudsman

Cc:

K. Allen, NB Aboriginal Affairs Secretariat

A. McGathey, NB Power

T. Francis, NB Power

S. O'Donnell, Maliseet Nation

R. Letica, J. Gorman, N. Sacobie, T. Plant, Z. Crofton-MacDonald, F. Sabbatis, Resource Development Consultation Co-coordinator

D. Maguire, Dept. Environment and Local Government



Énergie NB Power

October 11 2017

BY ELECTRONIC MAIL

Chief Hugh Akagi, Peskotomuhkati Tribe

Dear Chief Akagi:

As you may know, OrganiGram Inc. has entered into agreement with NB Power to begin necessary studies to build transmission facilities that will deliver 30 MW to its Moncton facility. The electricity will be supplied through a 630 m, 138 kV transmission line connected to an existing line. The line is proposed to be built within the municipal easement along Arsenault Court (where possible) to a customer-owned substation located near the OrganiGram Inc. facility. In addition to the municipal easement, the proposed route crosses six properties and the substation. Five properties are privately held and the sixth is owned by City of Moncton. It is voltage of the line that triggers the need for an Environmental Impact Assessment. Similar work on lower voltage lines occurs daily across the province in interest of safe and reliable electricity. Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. A map is enclosed for your review and orientation to this proposal.

Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. Having said this, Chief Akagi, out of courtesy and respect, we do want to make you aware of this proposed work.

Should you wish to have more information about this project, please call Tessa Francis, First Nations Liaison at 458-3079.

Yours truly,

NEW BRUNSWICK POWER CORPORATION

Andrea Allen
Director, First Nations Affairs & Ombudsman

Cc:

K. Allen, NB Aboriginal Affairs Secretariat
A. McGathey, NB Power
T. Francis, NB Power
K. Duguay, NB Power
D. Maguire, Dept. Environment and Local Government



Énergie NB Power

October 11, 2017

BY ELECTRONIC MAIL

Chief Kenneth Barlow, Indian Island First Nation

Chief Everett Martin, Eel River Bar First Nation

Chief David Peter Paul, Pabineau First Nation

Chief Alvery Paul, Esgenoôpetitj First Nation

Chief George Ginnish, Eel Ground First Nation

Chief Bill Ward, Metepenagiag First Nation

Chief Rebecca Knockwood, Fort Folly First Nation

Chief Ann Mary Steele, Bouctouche First Nation

Dear Chiefs:

As you may know, OrganiGram Inc. has entered into agreement with NB Power to begin necessary studies to build transmission facilities that will deliver 30 MW to its Moncton facility. The electricity will be supplied through a 630 m, 138 kV transmission line connected to an existing line. The line is proposed to be built within the municipal easement along Arsenault Court (where possible) to a customer-owned substation located near the OrganiGram Inc. facility. In addition to the municipal easement, the proposed route crosses six properties and the substation. Five properties are privately held and the sixth is owned by City of Moncton. It is voltage of the line that triggers the need for an Environmental Impact Assessment. Similar work on lower voltage lines occurs daily across the province in interest of safe and reliable electricity. Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. A map is enclosed for your review and orientation to this proposal.

NB Power understands that Mi'gmawe'l Tplu'taqnn Inc. is authorized to enter into consultation and engagement with proponents on your behalf and holds regular meetings with MTI staff to discuss projects. This proposed work has been a topic of those meetings in the recent past. Unless you indicate otherwise, we will continue to provide project information to MTI as it becomes available, and MTI can provide updates through your community liaison or community sessions as required.

In the meantime, should you have any questions please don't hesitate to call Tessa Francis, First Nations Liaison at 458-3079.

Yours truly,

NEW BRUNSWICK POWER CORPORATION



Andrea Allen

Director, First Nations Affairs & Ombudsman

Enclosure

Cc:

K. Allen, NB Aboriginal Affairs Secretariat

A. McGathey, NB Power, T. Francis, NB Power

S. Robichaud, MTI

D. Maguire, Dept. Environment and Local Government



Énergie NB Power

October 11, 2017

BY ELECTRONIC MAIL

Chief Aaren Sock

Elsipogtog First Nation

Dear Chief Sock:

As you may know, OrganiGram Inc. has entered into agreement with NB Power to begin necessary studies to build transmission facilities that will deliver 30 MW to its Moncton facility. The electricity will be supplied through a 630 m, 138 kV transmission line connected to an existing line. The line is proposed to be built within the municipal easement along Arsenault Court (where possible) to a customer-owned substation located near the OrganiGram Inc. facility. In addition to the municipal easement, the proposed route crosses six properties and the substation. Five properties are privately held and the sixth is owned by City of Moncton. It is voltage of the line that triggers the need for an Environmental Impact Assessment. Similar work on lower voltage lines occurs daily across the province in interest of safe and reliable electricity. Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. A map is enclosed for your review and orientation to this proposal.

Because the work is in an Industrial Park that has been previously disturbed, we do not anticipate any potential adverse impacts to aboriginal and treaty rights. Having said this, Chief Sock, out of courtesy and respect, we do want to make you aware of this proposed work.

Should you wish to have more information about this project, please call Tessa Francis, First Nations Liaison at 458-3079

Yours truly,

NEW BRUNSWICK POWER CORPORATION

Andrea Allen
Director, First Nations Affairs & Ombudsman

Cc:

K. Allen, NB Aboriginal Affairs Secretariat
A. McGathey, NB Power, T. Francis, NB Power
K. Francis, Kopit Lodge
D. Maguire, Dept. Environment and Local Government

