ENVIRONMENTAL ASSESSMENT CLASS I PROCESS

 Is required by Nova Scotia Environment & Climate Change (NS ECC) to ensure that a Project's environmental effects are minimized.

 Identifies and evaluates environmental effects at an early stage in Project development, and recommends mitigation to reduce adverse impacts.

Public consultation is an integral part of this process.
 Community is invited to comment on the environmental assessment during the review period.

Reviewed by NS ECC and other relevant government



agencies.

 Nova Scotia Minister of the Environment only provides approval once satisfied that environmental effects have been adequately assessed and addressed.



TYPICAL BASELINE STUDIES



BASELINE SURVEYS AVIFAUNA (BIRD SURVEYS)

SURVEY TYPE	METHOD	
BREEDING BIRD	10-minute point counts were conducted on site from sunrise to ~11AM during 6 survey events.	A total o Warbler, Rusty Bl breasted and Swa
COMMON NIGHTHAWK	7-minute point counts at 8 survey 4 indivisions on site.	
NOCTURNAL OWL	10-minute point counts with intermittent owl call playback. 7 survey stations on one night of surveys.	
SPRING MIGRATION & DIURNAL	10-15 ten-minute point counts were completed on site from sunrise to ~11AM across 6 survey events.	A total o Grosbeal Warbler,



of 751 individuals (61 species) were observed. 5 are SAR: Canada Chimney Swift, Common Nighthawk, Olive-sided Flycatcher and lackbird, and 8 are SOCC: American Kestrel, American Robin, Bay-Warbler, Boreal Chickadee, Canada Jay, Purple Finch, Red Crossbill, inson's Thrush.

lual nighthawks were observed during these surveys.

were observed during these surveys.

of 457 individuals (55 species) were observed. 2 are SAR: Evening k and Rusty Blackbird, and 4 are SOCC: American Kestrel, Blackpoll Boreal Chickadee, and Canada Jay.

FALL MIGRATION

WINTER BIRD

10-15 ten-minute point counts were completed on site from sunrise to ~11AM across 8 survey events.

15 ten-minute point counts were

conducted on site across 4 survey

A total of 800 individuals (74 species) were observed. 4 are SAR: Common Nighthawk, Eastern Wood-Pewee, Evening Grosbeak, and Peregrine Falcon, and 10 are SOCC: American Kestrel, American Robin, Bay-breasted Warbler, Black-backed Woodpecker, Blackpoll Warbler, Boreal Chickadee, Canada Jay, Pine Siskin, Purple Finch and Red Crossbill.

Surveys are still ongoing, and will be completed by March 31, 2024.











SPECIES OF CONSERVATION CONCERN

American Kestrel Photo Source: Gary Grossman

American Robin

Photo Source: Alex Eberts

3

2

Bay-Breasted Warbler

Photo Source: Keenan Yakola

Black-Backed Woodpecker 4 Photo Source: Luke Berg



7

Blackpoll Warbler Photo Source: Simon Boivin

Boreal Chickadee

6 Photo Source: Ryan Sanderson

Canada Jay



- Pine Siskin Photo Source: David Mitchell
- Purple Finch

8

10

11

9 Photo Source: Frances Higgs

Red Crossbill

Photo Source: Michael Stubblefield



Swainson's Thrush Photo Source: Terence Zahner

SPECIES AT RISK

Canada Warbler



Photo Source: Dale Bonk Chimney Swift 13 Photo Source: Peter F





Common Nighthawk Photo Source: Richard Stebbins



Eastern Wood Peewee Photo Source: John Deitsch

Evening Grosbeak Photo Source: Bellemare Celine



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Olive-Sided Flycatcher Photo Source: Luke Seitz

Peregrine Falcon 18 19

Photo Source: Joshua Stacy Rusty Blackbird

Photo Source: Daniel Jauvin



BASELINE SURVEYS

BAT SURVEYS

SURVEY TYPE

METHOD

BAT

ECCC's Canadian Wildlife Service (Atlantic Region) - Wind Energy & Birds Environmental Assessment Guidance Update (ECCC, 2022). Passive monitoring using autonomous recording units (ARU's, SM4BAT, Wildlife Acoustics).



Total of 696 bat calls were detected in the Project Area, including 314 detections of SAR and 133 detections of SOCC. SAR: Little Brown Bat and Northern Myotis and SOCC: Eastern Red Bat, Hoary Bat and Silver-Haired Bat.



SPECIES OF CONSERVATION CONCERN

Eastern Red Bat Photo Source: Phil Myers & Jani Hatchett



Hoary Bat Photo Source: Merlin Tuttle



2

Silver-Haired Bat Photo Source: Michael Durham

SPECIES AT RISK



Little Brown Bat Photo Source: Karen Vanderwolf



Northern Myotis Photo Source: Dave Thomas

BASELINE SURVEYS PLANTS, WETLANDS & PELLET SURVEYS





Transects were walked throughout Study Area.



137 species of vascular plants were identified. 2 are SOCC: American Beech and Blood Milkwort, no SAR. Total combined length of transects: 24.2 km. Incidental observations of Mainland Moose (SAR) pellets during 2023 vegetation surveys.

WETLAND & WATERCOURSE DELINEATIONS	US Army Corps of Engineers Wetlands Delineation Manual and the Northcentral and Northeastern Interim Regional Supplement Version 2.0 (US Army Corps of Engineers, 2012).	To be determined. Incidental observations of Brook Trout (SOCC) during Breeding Bird Surveys (2023).
PELLET	Transects were walked throughout Study Area.	Total of 333 observations. The most observed species include: Snowshoe Hare (195) and White-tailed Deer (9). Incidental observations of Eastern Coyote (39), American Red Squirrel (38), North American Porcupine (15), Bobcat (9), Black Bear (2) and North American Beaver (1). Total combined length of transects: 30.0 km.
		SPECIES OF CONSERVATION CONCERN American Beech Photo Source: Sara Rall
3	4	2 Blood Milkwort Photo Source: Mike N
		Brook Trout Photo Source: Vermont Fish & Wildlife Department
		SPECIES AT RISK Mainland Moose Photo Source: Ryan Hagerty

ARCHAEOLOGICAL RESOURCE IMPACT ASSESSMENT (ARIA)

- Required as part of the Environmental Assessment process
- Conducted under the terms of the Special Places Protection Act
 Purpose of the ARIA is to determine the potential for archaeological resources within the project area and to provide recommendations for appropriate resource management strategies.
- Key components of the assessment:
 - Historical Research Permit
 - Historical background study
 - Archaeological reconnaissance



Source: Davis MacIntyre & Associates





To be determined.

MI'KMAW ENGAGEMENT

The Proponent began initiating engagement and consultation with Mi'kmaq communities as early as 2021, establishing communication through various channels to designated contacts for the respective communities. Key engagement activities that have been carried out by the Proponent till date include the following:

 Introductory email sent to all Mi'kmaq Communities regarding proficiency of Proponent in development of similar projects in Nova Scotia, invitation to further discuss proposed project and potential for collaboration.



 Hand-delivery of letters by SWEB Developmental Director (Jason Parise) to Mi'kmaq communities providing details on the Proponent's Background, plans to develop the proposed project and invitation for further discussion on the projects.

• Convening virtual meetings with representatives of Mi'kmaq communities to provide overview of the proposed project and potential for collaboration.

The Proponent will continue to employ and sustain consultation efforts with the Mi'kmaq Communities throughout the development of the proposed project to ensure their meaningful participation in decisions that could potentially impact indigenous land and resources.

Where issues/concerns are raised, plans to address the issues will be developed and mitigation measures timely implemented to alleviate potential impacts.

Source: Province of Nova Scotia

