

# **APPENDIX 'J'**

## **Bird Survey Report**

**Date:** June 30, 2018

**Re:** Report on the Grand Manan Bird Survey for a Pickle Ball Court

## Introduction and Study Area

A bird survey of the area identified in the image, below was carried out on June 16, 2018.

The purpose of this bird survey was to determine if any species at risk or birds of conservation interest were present.



## Methodology

Recognized breeding bird surveys were used to determine what species are potentially breeding on this site (<https://ebird.org/atlaswi/news/summary-of-2017-atlas-point-counts/>). Four 10-minute listening stations were used to detect birds on site. In wooded areas the protocol recommends that the listening stations be at least 250 metres apart. However given the small size of the property (17 acres, including building footprint) some of the points were within 250 metres. This was done to insure the best coverage for breeding presence. Caution was used to avoid double counting. Transects through the property were also used to find additional species not captured by point counts. The methodology used for determining what birds might be nesting was based on the recognized protocol developed for Maritime Bird Breeding Atlas (<http://www.mba-aom.ca>).

## Results

The property was walked the night before on June 15, 2018 for about an hour. On June 16 it took about 50 minutes to carry out the point counts and 2 hours of transect walking through the property.

Twenty-two species were observed and 32 individuals were counted. No species at risk, bird colonies or raptor nests were observed.

A complete list of species observed can be found in table 1.

**Table 1 - Bird Species Seen on June 16**

Alder Flycatcher	Hairy Woodpecker
American Redstart	Magnolia Warbler
American Robin	Nashville Warbler
Black and White Warbler	Northern Flicker
Black-capped Chickadee	Northern Parula
Black-throated Green Warbler	Purple Finch
Canada Warbler	Swainson's Thrush
Chestnut-sided Warbler	Swamp Sparrow
Common Yellowthroat	Tree Swallow
Dark-eyed Junco	White-throated Sparrow
Golden-crowned Kinglet	Winter Wren

## Conclusions

No bird species at risk or of conservation interest were observed.

This site has a small creek running through the property. The creek has a small Speckled Alder floodplain. The surrounding forest is mostly a wetland forest. Several species of risk might use this habitat such as Canada Warbler, Rusty Blackbird and Olive-sided Flycatcher. However the breeding habitat for these species on site is marginal at best.

A brief playback call was tried for the Canada Warbler with no success. No Olive-sided Flycatchers or Rusty Blackbirds were heard.

During the breeding season is the best time to detect species because of their songs.

The Bicknell's Thrush was mentioned as possibly being present on Grand Manan Island. The typical breeding habitat for Bicknell's Thrush is dense coniferous stands. This site has no habitat like that. Thus, no Bicknell's Thrush playback was used.

There was no dry open forest habitat for nesting Common Nighthawk. There was one open grassy area but it was damp and recently flooded.

No other sensitive species were observed. (See the bird list of potential occurring sensitive species in the appendix.)

In conclusion, the site is a good example of common New Brunswick bird species.

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## **Appendices**

## Field Observations at each Point Count Part 1 of 2

Species Name	Point Count Name	#	Breeding Code*	Bird Behaviour & Notes
Black-capped Chickadee	GM3	1	H	Calling
Swainson's Thrush	GM3	1	H	an additional one
Northern Flicker	GM2	1	H	
Dark-eyed Junco	GM4	1	Pair	Agitated, Nest?
Northern Parula	GM4	1	S	
Winter Wren	GM4	1	S	
Magnolia Warbler	GM4	1	S	
Common Yellowthroat	GM4	1	S	
White-throated Sparrow	GM4	1	S	
Hairy Woodpecker	GM4	1	S	
Alder Flycatcher	GM4	1	S	
Black-throated Green Warbler	GM3	1	S	
Golden-crowned Kinglet	GM3	1	S	
Swainson's Thrush	GM3	1	S	

\* Breeding codes are provided below.

### Field Observations at each Point Count Part 2 of 2

Species Name	Point Count Name	#	Breeding Code*	Bird Behaviour & Notes
Northern Flicker	GM2	1	H	
American Redstart	GM2	1	S	
Chestnut-sided Warbler	GM2	1	S	
Golden-crowned Kinglet	GM2	1	S	
Nashville Warbler	GM2	1	S	
Purple Finch	GM2	1		Flyover
Black-throated Green Warbler	GM2	1	S	
Alder Flycatcher	GM1	2	S	
American Redstart	GM1	1	S	
American Robin	GM1	1	S	
White-throated Sparrow	GM1	1	S	
Swainson's Thrush	GM1	1	S	
Magnolia Warbler	GM1	1	S	May have already been counted
Northern Parula	GM1	1	S	May have already been counted

\* Breeding codes are provided below.

## Recommended bird breeding evidence codes

You can use these codes to describe the bird breeding evidence found during a survey.  
You should only report the highest breeding evidence (highest rank) found during a visit for each species.

<b>breeding _code</b>	<b>Category</b>	<b>Rank</b>	<b>description_english</b>
X	Observed	0	Species observed in its breeding season (no breeding evidence)
H	Possible	1	Species observed in its breeding season in suitable nesting habitat
S	Possible	2	Singing male(s) present, or breeding calls heard, in suitable nesting habitat in breeding season
M	Probable	3	At least 7 individuals singing or producing other sounds associated with breeding (e.g., calls or drumming), heard during the same visit to a single square and in suitable nesting habitat during the species' breeding season.
P	Probable	4	Pair observed in suitable nesting habitat in nesting season
T	Probable	5	Permanent territory presumed through registration of territorial song, or the occurrence of an adult bird, at the same place, in breeding habitat, on at least two days a week or more apart, during its breeding season. Use discretion when using this code. "T" is not to be used for colonial birds, or species that might forage or loaf a long distance from their nesting site e.g. Kingfisher, Turkey Vulture, and male waterfowl
D	Probable	6	Courtship or display, including interaction between a male and a female or two males, including courtship feeding or copulation
V	Probable	7	Visiting probable nest site
A	Probable	8	Agitated behaviour or anxiety calls of an adult
B	Probable	9	Brood Patch on adult female or cloacal protuberance on adult male
N	Probable	10	Nest-building or excavation of nest hole, except by a wren or a woopecker
NB	Confirmed	11	Nest-building or excavation of nest hole by a species other than a wren or a woopecker
DD	Confirmed	12	Distraction display or injury feigning
NU	Confirmed	13	Used nest or egg shells found (occupied or laid within the period of the survey)
FY	Confirmed	14	Recently fledged young (nidicolous species) or downy young (nidifugous species), including incapable of sustained flight
AE	Confirmed	15	Adult leaving or entering nest sites in circumstances indicating occupied nest
FS	Confirmed	16	Adult carrying fecal sac
CF	Confirmed	17	Adult carrying food for young
NE	Confirmed	18	Nest containing eggs
NY	Confirmed	19	Nest with young seen or heard

## List of Potentially Breeding Bird Species Based on the Habitat Found at the Site ( Source AC CDC Records <http://accdc.com> )

Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	DISTkm	Prov
<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened	Threatened	S1S2B,S1S2M	2 May Be At Risk	88	4.9 ± 7.0	NB
<i>Caprimulgus vociferus</i>	Whip-Poor-Will	Threatened	Threatened	Threatened	S2B,S2M	1 At Risk	37	54.2 ± 7.0	NB
<i>Catharus bicknelli</i>	Bicknell's Thrush	Threatened	Special Concern	Threatened	S2B,S2M	1 At Risk	21	2.2 ± 4.0	NB
<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Threatened	S2S3B,S2M	1 At Risk	119	4.0 ± 12.0	NB
<i>Contopus cooperi</i>	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B,S3M	1 At Risk	163	3.6 ± 1.0	NB
<i>Wilsonia canadensis</i>	Canada Warbler	Threatened	Threatened	Threatened	S3B,S3M	1 At Risk	366	3.5 ± 0.0	NB
<i>Chordeiles minor</i>	Common Nighthawk	Threatened	Threatened	Threatened	S3B,S4M	1 At Risk	158	32.9 ± 1.0	NB
<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Special Concern	S3B,S3M	2 May Be At Risk	76	2.3 ± 3.0	NB
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern			S3B,S3S4N,SUM	3 Sensitive	121	4.0 ± 12.0	NB
<i>Mimus polyglottos</i>	Northern Mockingbird				S2B,S2M	3 Sensitive	88	4.9 ± 7.0	NB
<i>Toxostoma rufum</i>	Brown Thrasher				S2B,S2M	3 Sensitive	49	4.9 ± 7.0	NB
<i>Pooecetes gramineus</i>	Vesper Sparrow				S2B,S2M	2 May Be At Risk	36	7.5 ± 0.0	NB
<i>Pinicola enucleator</i>	Pine Grosbeak				S2B,S4S5N,S4S5M	3 Sensitive	23	4.9 ± 7.0	NB
<i>Tringa solitaria</i>	Solitary Sandpiper				S2B,S5M	4 Secure	225	0.8 ± 1.0	NB
<i>Asio otus</i>	Long-eared Owl				S2S3	5 Undetermined	13	3.1 ± 0.0	NB
<i>Picoides dorsalis</i>	American Three-toed Woodpecker				S2S3	3 Sensitive	4	70.9 ± 7.0	NB
<i>Carduelis pinus</i>	Pine Siskin				S3	4 Secure	127	3.5 ± 0.0	NB
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B,S3M	4 Secure	65	4.0 ± 12.0	NB
<i>Vireo gilvus</i>	Warbling Vireo				S3B,S3M	4 Secure	31	4.9 ± 7.0	NB
<i>Piranga olivacea</i>	Scarlet Tanager				S3B,S3M	4 Secure	46	4.9 ± 7.0	NB
<i>Passerina cyanea</i>	Indigo Bunting				S3B,S3M	4 Secure	63	3.1 ± 0.0	NB
<i>Molothrus ater</i>	Brown-headed Cowbird				S3B,S3M	2 May Be At Risk	116	1.1 ± 1.0	NB
<i>Icterus galbula</i>	Baltimore Oriole				S3B,S3M	4 Secure	42	4.0 ± 12.0	NB
<i>Dendroica tigrina</i>	Cape May Warbler				S3B,S4S5M	4 Secure	60	4.9 ± 7.0	NB
<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3S4B,S3S4M	3 Sensitive	179	3.5 ± 0.0	NB
<i>Gallinago delicata</i>	Wilson's Snipe				S3S4B,S5M	4 Secure	133	1.3 ± 0.0	NB
<i>Dendroica striata</i>	Blackpoll Warbler				S3S4B,S5M	4 Secure	82	3.1 ± 1.0	NB