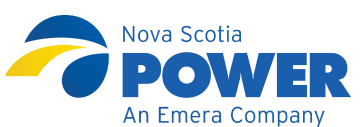


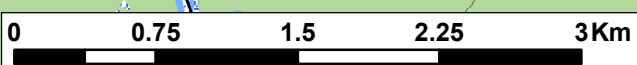
Notes:
 1. Data Sources: GeoNOVA, NSTD.
 2. Projection: NAD83 UTM Zone 20 North.

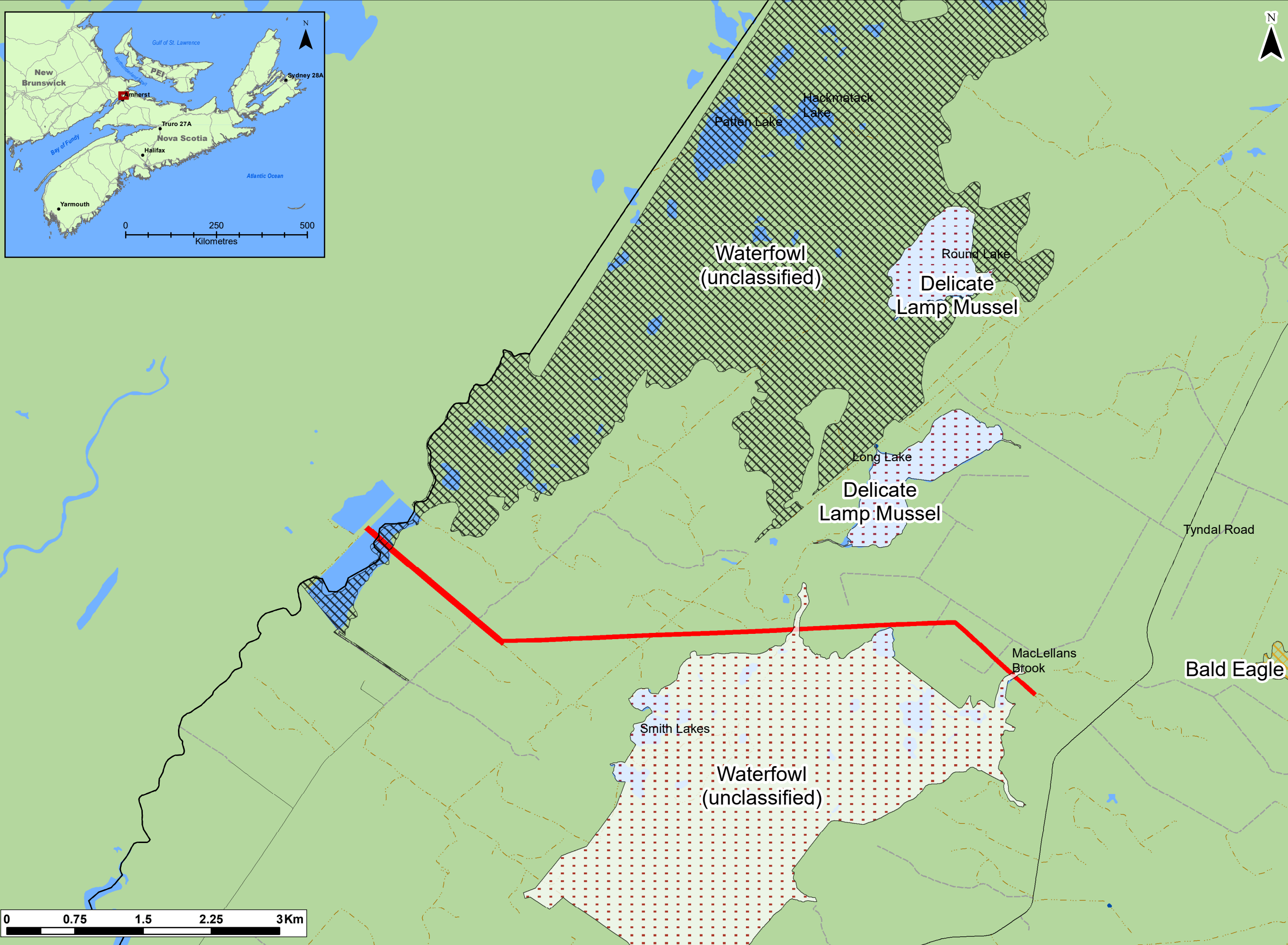
- Legend:**
- █ Bird Survey Location
 - Chignecto Isthmus Wilderness Area
 - █ Wetland of Special Significance
 - █ Mapped Wet Area
 - NB/NS Border
 - Transportation**
 - Trans-Canada Highway
 - Highway
 - Bridge
 - Arterial Road
 - Collector Road
 - Local Road
 - Unpaved Road
 - Track

**Amherst Section
 Study Area -
 Desktop Review -
 Wetlands and
 Wilderness Area**



Date: Nov. 2020	Project #: 20-7343
Scale: 1:40,000	Drawing #: 6
Drawn By: M. Savelle	
Checked By: S. Dickey	

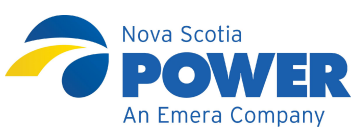




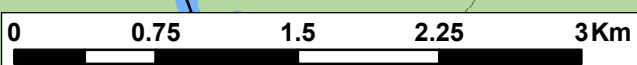
Notes:
 1. Data Sources: GeoNOVA, NSTD.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Bird Survey Location
 - Deer Wintering
 - Migratory Bird
 - Moose Wintering
 - Other Habitat
 - Species at Risk
 - Species of Conc
 - NB/NS Border
- Transportation**
- Trans-Canada Highway
 - Highway
 - Bridge
 - Arterial Road
 - Collector Road
 - Local Road
 - Unpaved Road
 - Track

**Amherst Section
 Study Area -
 Desktop Review -
 Significant Habitats**



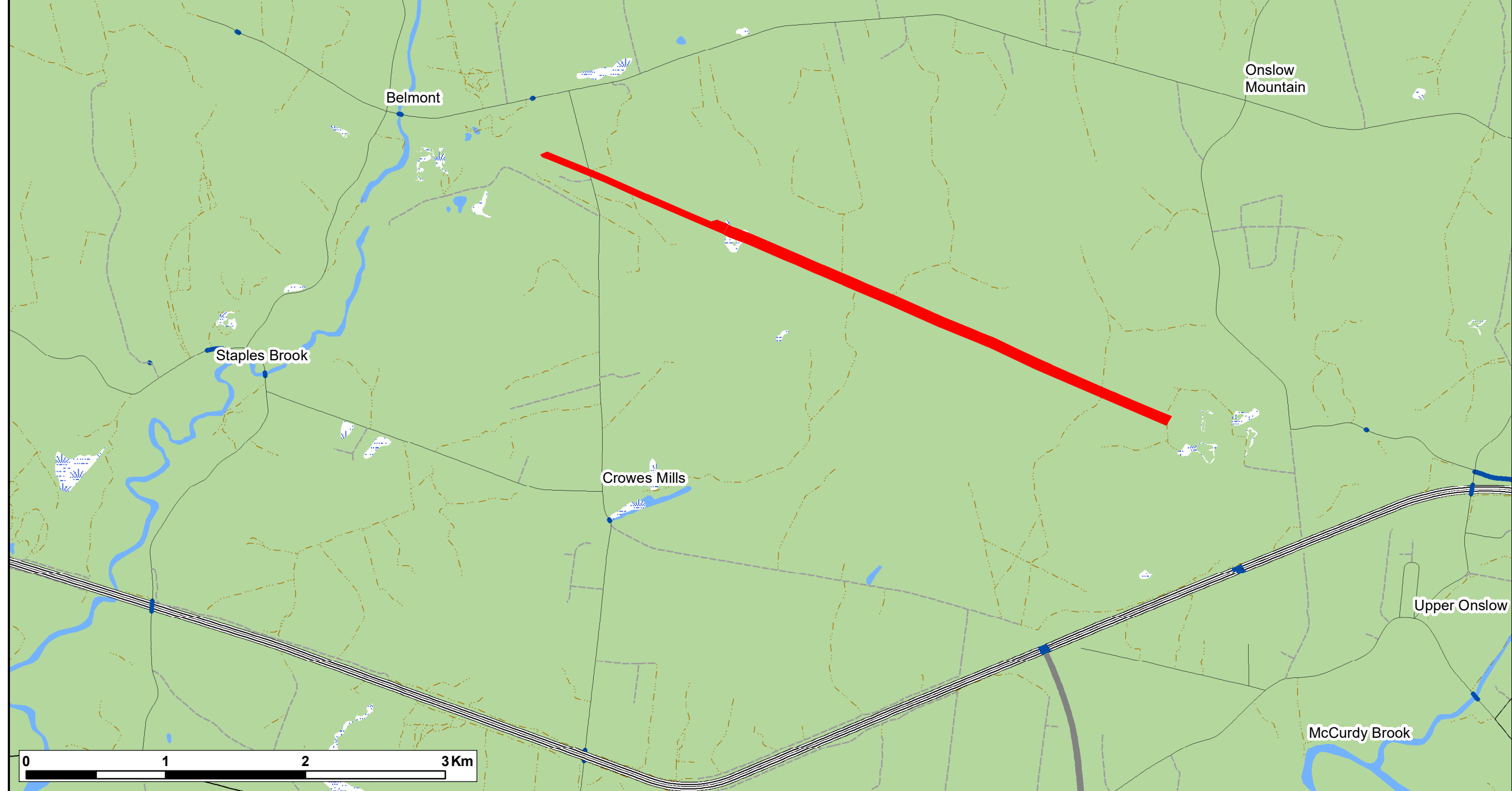
Date: Nov. 2020	Project #: 20-7343
Scale: 1:40,000	7
Drawn By: M. Savelle	
Checked By: S. Dickey	



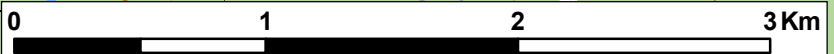


Notes:
 1. Data Sources: GeoNOVA, NSTD.
 2. Projection: NAD83 UTM Zone 20 North.

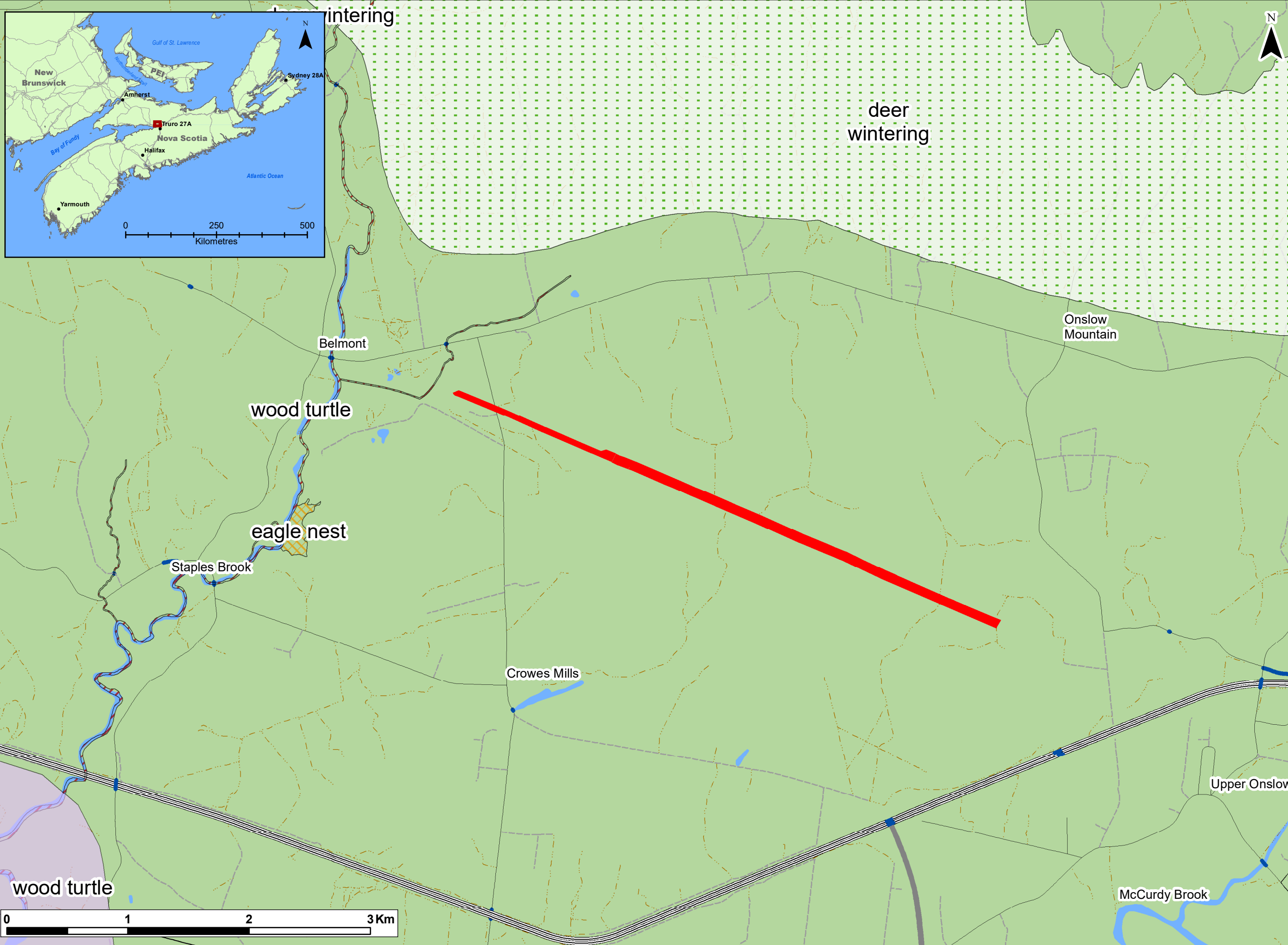
- Legend:**
- Bird Survey Location
 - Mapped Wet Area
 - Transportation**
 - Trans-Canada Highway
 - Highway
 - Bridge
 - Arterial Road
 - Collector Road
 - Local Road
 - Unpaved Road
 - Track



**Onslow Section
 Study Area -
 Desktop Review -
 Wetlands and
 Wilderness Area**



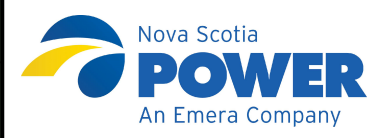
Date: April 2020	Project #: 20-7343
Scale: 1:30,000	Drawing #: 8
Drawn By: M. Savelle	
Checked By: S. Dickey	



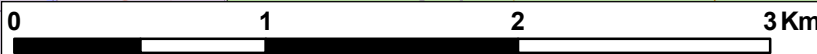
Notes:
 1. Data Sources: GeoNOVA, NSTD.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Bird Survey Location
 - Important Bird Areas
 - Deer Wintering
 - Migratory Bird
 - Moose Wintering
 - Other Habitat
 - Species at Risk
 - Species of Conc
- Transportation**
- Trans-Canada Highway
 - Highway
 - Bridge
 - Arterial Road
 - Collector Road
 - Local Road
 - Unpaved Road
 - Track

**Onslow Section
 Study Area -
 Desktop Review -
 Significant Habitats**



Date: Nov. 2020	Project #: 20-7343
Scale: 1:30,000	Drawing #: 9
Drawn By: M. Savelle	
Checked By: S. Dickey	



APPENDIX B
BREEDING BIRD SURVEY RESULTS

Table B1: L8001 / 8005 Avian Assessment - Breeding Bird Survey Results - Amherst Section

Project # 20-7343

Common Name	Scientific Name	SARA Status	COSEWIC Status	NSESA Status	NS S-Rank	Number Observed	Breeding Evidence Observed
Alder Flycatcher	<i>Empidonax alnorum</i>	Not Listed	Not Listed	Not Listed	S5B	15	Present during breeding season - Possible
American Black Duck	<i>Anas rubripes</i>	Not Listed	Not Listed	Not Listed	S5	4	Present during breeding season - Possible
American Crow	<i>Corvus brachyrhynchos</i>	Not Listed	Not Listed	Not Listed	S5	2	Present during breeding season - Possible
American Goldfinch	<i>Carduelis tristis</i>	Not Listed	Not Listed	Not Listed	S5	13	Pair - Probable
American Kestrel	<i>Falco sparverius</i>	Not Listed	Not Listed	Not Listed	S3B	1	Present during breeding season - Possible
American Redstart	<i>Setophaga ruticilla</i>	Not Listed	Not Listed	Not Listed	S4S5B	1	Present during breeding season - Possible
American Robin	<i>Turdus migratorius</i>	Not Listed	Not Listed	Not Listed	S5B,S3N	92	Territorial, Nest - Confirmed
Barred Owl	<i>Strix varia</i>	Not Listed	Not Listed	Not Listed	S5	2	Present during breeding season - Possible
Black-and-white Warbler	<i>Mniotilta varia</i>	Not Listed	Not Listed	Not Listed	S5B	20	Present during breeding season - Possible
Black-capped Chickadee	<i>Poecile atricapillus</i>	Not Listed	Not Listed	Not Listed	SNR	35	Fledged Young - Confirmed
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>	Not Listed	Not Listed	Not Listed	S5B	51	Present during breeding season - Possible
Black-throated Green Warbler	<i>Dendroica virens</i>	Not Listed	Not Listed	Not Listed	S5B	10	Present during breeding season - Possible
Blue Jay	<i>Cyanocitta cristata</i>	Not Listed	Not Listed	Not Listed	S5	17	Present during breeding season - Possible
Blue-headed Vireo	<i>Vireo solitarius</i>	Not Listed	Not Listed	Not Listed	S5B	4	Present during breeding season - Possible
Boreal Chickadee	<i>Poecile hudsonica</i>	Not Listed	Not Listed	Not Listed	S3	2	Present during breeding season - Possible
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	Not Listed	Not Listed	Not Listed	S5B	3	Present during breeding season - Possible
Common Raven	<i>Corvus corax</i>	Not Listed	Not Listed	Not Listed	S5	1	Present during breeding season - Possible
Common Yellowthroat	<i>Geothlypis trichas</i>	Not Listed	Not Listed	Not Listed	S5B	134	Present during breeding season - Possible
Dark-eyed Junco	<i>Junco hyemalis</i>	Not Listed	Not Listed	Not Listed	S4S5	135	Probable - Probable
Eastern Wood-Pewee	<i>Contopus virens</i>	Special Concern	Special Concern	Vulnerable	S3S4B	2	Present during breeding season - Possible
Golden-crowned Kinglet	<i>Regulus satrapa</i>	Not Listed	Not Listed	Not Listed	S5	6	Present during breeding season - Possible
Gray Jay	<i>Perisoreus canadensis</i>	Not Listed	Not Listed	Not Listed	S3	3	Present during breeding season - Possible
Hermit Thrush	<i>Catharus guttatus</i>	Not Listed	Not Listed	Not Listed	S5B	115	Territorial - Probable
Least Flycatcher	<i>Empidonax minimus</i>	Not Listed	Not Listed	Not Listed	S4S5B	9	Present during breeding season - Possible
Magnolia Warbler	<i>Dendroica magnolia</i>	Not Listed	Not Listed	Not Listed	S5B	7	Present during breeding season - Possible
Merlin	<i>Falco columbarius</i>	Not Listed	Not at Risk	Not Listed	S5B	2	Present during breeding season - Possible
Mourning Dove	<i>Zenaidura macroura</i>	Not Listed	Not Listed	Not Listed	S5	27	Pair - Probable
Northern Flicker	<i>Colaptes auratus</i>	Not Listed	Not Listed	Not Listed	S5B	5	Pair - Probable
Northern Parula	<i>Parula americana</i>	Not Listed	Not Listed	Not Listed	S5B	13	Present during breeding season - Possible
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Threatened	Special Concern	Threatened	S2B	14	Present during breeding season - Possible
Osprey	<i>Pandion haliaetus</i>	Not Listed	Not Listed	Not Listed	S4B	2	Nest - Confirmed
Palm Warbler	<i>Dendroica palmarum</i>	Not Listed	Not Listed	Not Listed	S5B	32	Present during breeding season - Possible
Purple Finch	<i>Carpodacus purpureus</i>	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N	1	Present during breeding season - Possible
Red-breasted Nuthatch	<i>Sitta canadensis</i>	Not Listed	Not Listed	Not Listed	S3	3	Present during breeding season - Possible
Red-eyed Vireo	<i>Vireo olivaceus</i>	Not Listed	Not Listed	Not Listed	S5B	119	Present during breeding season - Possible
Ruby-crowned Kinglet	<i>Regulus calendula</i>	Not Listed	Not Listed	Not Listed	S3S4B	1	Present during breeding season - Possible
Sharp-shinned Hawk	<i>Accipiter striatus</i>	Not Listed	Not at Risk	Not Listed	S5	1	Present during breeding season - Possible
Song Sparrow	<i>Melospiza melodia</i>	Not Listed	Not Listed	Not Listed	S5B	124	Nest, pair - Confirmed
Spruce Grouse	<i>Falciptennis canadensis</i>	Not Listed	Not Listed	Not Listed	S4	10	Fledged Young - Confirmed
Swainson's Thrush	<i>Catharus ustulatus</i>	Not Listed	Not Listed	Not Listed	S3S4B	16	Present during breeding season - Possible
Swamp Sparrow	<i>Melospiza georgiana</i>	Not Listed	Not Listed	Not Listed	S5B	6	Fledged Young - Confirmed
Tree Swallow	<i>Tachycineta bicolor</i>	Not Listed	Not Listed	Not Listed	S4B	5	Present during breeding season - Possible
White-throated Sparrow	<i>Zonotrichia albicollis</i>	Not Listed	Not Listed	Not Listed	S5B	138	Pair - Probable
White-winged Crossbill	<i>Loxia leucoptera</i>	Not Listed	Not Listed	Not Listed	S4S5	10	Pair - Probable
Winter Wren	<i>Troglodytes troglodytes</i>	Not Listed	Not Listed	Not Listed	S5B	1	Present during breeding season - Possible
Yellow Warbler	<i>Dendroica petechia</i>	Not Listed	Not Listed	Not Listed	S5B	9	Pair - Probable
Yellow-rumped Warbler	<i>Dendroica coronata</i>	Not Listed	Not Listed	Not Listed	S5B	24	Pair - Probable

Table B2: L8001 / 8005 Avian Assessment - Breeding Bird Survey Results - Onslow Section

Project # 20-7343

Common Name	Scientific Name	SARA Status	COSEWIC Status	NSESA Status	NS S-Rank	Number Observed	Breeding Evidence Observed
Alder Flycatcher	<i>Empidonax alnorum</i>	Not Listed	Not Listed	Not Listed	S5B	41	Present during breeding season - Possible
American Crow	<i>Corvus brachyrhynchos</i>	Not Listed	Not Listed	Not Listed	S5	7	Present during breeding season - Possible
American Goldfinch	<i>Carduelis tristis</i>	Not Listed	Not Listed	Not Listed	S5	37	Pair - Probable
American Kestrel	<i>Falco sparverius</i>	Not Listed	Not Listed	Not Listed	S3B	1	Present during breeding season - Possible
American Robin	<i>Turdus migratorius</i>	Not Listed	Not Listed	Not Listed	S5B,S3N	45	Fledged Young, Pair - Confirmed
Black-and-white Warbler	<i>Mniotilta varia</i>	Not Listed	Not Listed	Not Listed	S5B	4	Present during breeding season - Possible
Blackburnian Warbler	<i>Dendroica fusca</i>	Not Listed	Not Listed	Not Listed	S4B	1	Present during breeding season - Possible
Black-capped Chickadee	<i>Poecile atricapillus</i>	Not Listed	Not Listed	Not Listed	SNR	20	Fledged young - Confirmed
Black-throated Green Warbler	<i>Dendroica virens</i>	Not Listed	Not Listed	Not Listed	S5B	23	Present during breeding season - Possible
Blue Jay	<i>Cyanocitta cristata</i>	Not Listed	Not Listed	Not Listed	S5	3	Present during breeding season - Possible
Blue-headed Vireo	<i>Vireo solitarius</i>	Not Listed	Not Listed	Not Listed	S5B	1	Present during breeding season - Possible
Yellow Warbler	<i>Dendroica petechia</i>	Not Listed	Not Listed	Not Listed	S5B	5	Present during breeding season - Possible
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	Not Listed	Not Listed	Not Listed	S5B	5	Present during breeding season - Possible
Common Yellowthroat	<i>Geothlypis trichas</i>	Not Listed	Not Listed	Not Listed	S5B	36	Territorial - Probable
Dark-eyed Junco	<i>Junco hyemalis</i>	Not Listed	Not Listed	Not Listed	S4S5	36	Pair - Probable
Eastern Wood-Pewee	<i>Contopus virens</i>	Special Concern	Special Concern	Vulnerable	S3S4B	1	Present during breeding season - Possible
European Starling	<i>Sturnus vulgaris</i>	Not Listed	Not Listed	Not Listed	SNA	5	Present during breeding season - Possible
Golden-crowned Kinglet	<i>Regulus satrapa</i>	Not Listed	Not Listed	Not Listed	S5	3	Present during breeding season - Possible
Gray Jay	<i>Perisoreus canadensis</i>	Not Listed	Not Listed	Not Listed	S3	1	Present during breeding season - Possible
Hermit Thrush	<i>Catharus guttatus</i>	Not Listed	Not Listed	Not Listed	S5B	12	Present during breeding season - Possible
Least Flycatcher	<i>Empidonax minimus</i>	Not Listed	Not Listed	Not Listed	S4S5B	12	Pair - Probable
Magnolia Warbler	<i>Dendroica magnolia</i>	Not Listed	Not Listed	Not Listed	S5B	2	Present during breeding season - Possible
Mourning Dove	<i>Zenaidura macroura</i>	Not Listed	Not Listed	Not Listed	S5	6	Present during breeding season - Possible
Northern Flicker	<i>Colaptes auratus</i>	Not Listed	Not Listed	Not Listed	S5B	1	Present during breeding season - Possible
Northern Parula	<i>Parula americana</i>	Not Listed	Not Listed	Not Listed	S5B	7	Present during breeding season - Possible
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Threatened	Special Concern	Threatened	S2B	1	Present during breeding season - Possible
Palm Warbler	<i>Dendroica palmarum</i>	Not Listed	Not Listed	Not Listed	S5B	4	Present during breeding season - Possible
Purple Finch	<i>Carpodacus purpureus</i>	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N	3	Present during breeding season - Possible
Red-breasted Nuthatch	<i>Sitta canadensis</i>	Not Listed	Not Listed	Not Listed	S3	1	Present during breeding season - Possible
Red-eyed Vireo	<i>Vireo olivaceus</i>	Not Listed	Not Listed	Not Listed	S5B	17	Present during breeding season - Possible
Red-tailed Hawk	<i>Buteo jamaicensis</i>	Not Listed	Not at Risk	Not Listed	S5	3	Territorial - Probable
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	Not Listed	Not Listed	Not Listed	S4B	9	Pair - Probable
Ring-necked Pheasant	<i>Phasianus colchicus</i>	Not Listed	Not Listed	Not Listed	SNA	2	Present during breeding season - Possible
Ruby-crowned Kinglet	<i>Regulus calendula</i>	Not Listed	Not Listed	Not Listed	S3S4B	2	Present during breeding season - Possible
Song Sparrow	<i>Melospiza melodia</i>	Not Listed	Not Listed	Not Listed	S5B	97	Pair, Territorial - Probable
Swainson's Thrush	<i>Catharus ustulatus</i>	Not Listed	Not Listed	Not Listed	S3S4B	8	Territorial - Probable
Swamp Sparrow	<i>Melospiza georgiana</i>	Not Listed	Not Listed	Not Listed	S5B	3	Territorial - Probable
White-throated Sparrow	<i>Zonotrichia albicollis</i>	Not Listed	Not Listed	Not Listed	S5B	86	Pair, Territorial - Probable
White-winged Crossbill	<i>Loxia leucoptera</i>	Not Listed	Not Listed	Not Listed	S4S5	2	Present during breeding season - Possible
Yellow Warbler	<i>Dendroica petechia</i>	Not Listed	Not Listed	Not Listed	S5B	5	Present during breeding season - Possible
Yellow-rumped Warbler	<i>Dendroica coronata</i>	Not Listed	Not Listed	Not Listed	S5B	15	Present during breeding season - Possible

APPENDIX C
INFRASTRUCTURE INTERACTION SURVEY RESULTS

Table C1: L8001/8005 Transmission Line Avian Assessment - Infrastructure Interaction Surveys - Amherst Section Study Area Survey Results

Date	Sky	Wind Speed (km/h)	Wind Direction	Evening / Morning	Spring / Fall	Survey Location	Species	Number	Direction of Flight	Area of Crossing	Height at Crossing (m) Above Ground	Interaction with Powerlines?	Notes
7-May-20	Variable Cloud	<10	West	Evening	Spring	Long Lake	Common Loon	1	E to W	Center	40	No	
7-May-20	Variable Cloud	<10	West	Evening	Spring	Pt19	Ospray	1	N/A	N/A	N/A	Yes	Nesting on pole at approximately 45° 53.147'N, 64° 8.284'W
7-May-20	Variable Cloud	<10	West	Evening	Spring	HWY 366	Duck spp.	2	E to W	Center	100+	No	
7-May-20	Variable Cloud	<10	West	Evening	Spring	HWY 366	Duck spp.	3	W to E	Center	80	No	
7-May-20	Variable Cloud	<10	West	Evening	Spring	HWY 366	Duck spp.	2	E to W	Center	50	No	
7-May-20	Variable Cloud	<10	West	Evening	Spring	HWY 366	Duck spp.	2	W to E	East	20	Yes	Ducks passed just over treeline, gained height to cross over wires, appeared to see wires and crossed with confidence
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	PT21	Black Duck	1	E to W	West	15	Yes	Duck passed under wires
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	PT21	Ospray	1	W to E	West	20	Yes	Passed near wires, confident
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	Duck spp.	1	E to W	East	30	No	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	American Crow	1	E to W	East	50	No	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	Bald Eagle	1	W to E	East	80	No	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	American Crow	1	E to W	Center east	40	no	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	Duck spp.	1	E to W	Center east	80	No	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	Canada Goose	1	E to W	Center	80	No	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	American Crow	1	W to E	Center	60	No	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	Bald Eagle	1	W to E	Center	100	No	
20-May-20	Variable Cloud	22	Northwest	Evening	Spring	HWY366	American Crow	1	W to E	Center	40		
21-May-20	Clear	<10	Northwest	Morning	Spring	HWY366	Canada Goose	N/A	N/A	N/A	N/A	N/A	Dozens of geese audible in distance
21-May-20	Clear	<10	Northwest	Morning	Spring	PT22	White-winged Crossbill	20	E to W	Center west	30	No	
21-May-20	Clear	<10	Northwest	Morning	Spring	PT22	Ospray	1	W to E	Center west	60	No	
21-May-20	Clear	<10	Northwest	Morning	Spring	HWY366	Duck spp.	1	W to E	East	50	No	
5-Jun-20	Clear	30	Southwest	Evening	Spring	PT19	Rock Pigeon	1	W to E	East	20	Yes	
5-Jun-20	Clear	30	Southwest	Evening	Spring	PT19	Barred Owl	N/A	N/A	N/A	N/A	No	Callin in woods to the west of the powerlines
5-Jun-20	Clear	30	Southwest	Evening	Spring	HWY366	Sharp-shinned Hawk	1	E to W	East	20	Yes	
5-Jun-20	Clear	30	Southwest	Evening	Spring	HWY366	Tree Swallow	5	E to W	Center east	60	No	
5-Jun-20	Clear	30	Southwest	Evening	Spring	HWY366	American Crow	1	E to W	Center	60	No	
5-Jun-20	Clear	30	Southwest	Evening	Spring	HWY366	American Crow	1	E to W	East	40	No	
5-Jun-20	Clear	30	Southwest	Evening	Spring	HWY366	American Crow	3	E to W	East	30	Yes	
5-Jun-20	Clear	30	Southwest	Evening	Spring	HWY366	Bald Eagle	1	W to E	Center	60	No	
5-Jun-20	Clear	20	South	Morning	Spring	HWY366	Common Raven	1	E to W	Center	80	No	
5-Jun-20	Clear	20	South	Morning	Spring	HWY366	American Crow	3	E to W	East	40	No	
5-Jun-20	Clear	20	South	Morning	Spring	HWY366	Duck spp.	1	W to E	Center	30	Yes	Passed just over wires
5-Jun-20	Clear	20	South	Morning	Spring	HWY366	Bald Eagle	1	W to E	Center	100	No	
5-Jun-20	Clear	20	South	Morning	Spring	HWY366	Tree Swallow	5	E to W	Center	30	No	
5-Jun-20	Clear	20	South	Morning	Spring	PT22	Duck spp.	1	W to E	Center west	80	No	
10-Sep-20	Variable Cloud	25	Southwest	Evening	Fall	PT21	American Wigeon	8	W to E	West	15	Yes	Flock passed under wires over Missaguash marsh
10-Sep-20	Variable Cloud	25	Southwest	Evening	Fall	PT21	American Wigeon	36	N/A	N/A	N/A	N/A	Several Wigeon resting in cattails (Migration stopovers)
10-Sep-20	Variable Cloud	25	Southwest	Evening	Fall	PT21	Bald Eagle	1	W to E	West	15	Yes	Passed under wires over Missaguash marsh
10-Sep-20	Variable Cloud	25	Southwest	Evening	Fall	PT21	Broadwing Hawk	1	E to W	West	20	Yes	Passed under wires over Missaguash marsh
10-Sep-20	Variable Cloud	25	Southwest	Evening	Fall	PT21	American Wigeon	2	E to W	West	15	Yes	Passed under wires over Missaguash marsh
10-Sep-20	Variable Cloud	25	Southwest	Evening	Fall	PT21	American Wigeon	10	W to E	West	10	Yes	Passed under wires over Missaguash marsh, put up by broadwing Hawk
10-Sep-20	Foggy	25	Southwest	Evening	Fall	HWY336	American Crow	1	e to w	east	20	Yes	
10-Sep-20	Foggy	25	Southwest	Evening	Fall	HWY336	American Crow	1	W to E	East	60	No	
10-Sep-20	Foggy	25	Southwest	Evening	Fall	HWY336	Duck spp.	1	W to E	East	40	No	
11-Sep-20	Variable Cloud	20	North	Morning	Fall	HWY366	Common Grackle	200	W to E	Center east	30	Yes	Flock passed close to wires. No evidence of collisions.
11-Sep-20	Variable Cloud	20	North	Morning	Fall	HWY366	Common Grackle	10	W to E	Center east	30	Yes	
11-Sep-20	Variable Cloud	20	North	Morning	Fall	HWY366	Bald Eagle	1	W to E	Center east	60	No	
11-Sep-20	Variable Cloud	20	North	Morning	Fall	HWY366	Blue Jay	8	W to E	Center	60	No	
11-Sep-20	Variable Cloud	20	North	Morning	Fall	HWY366	American Crow	3	E to W	Center	60	No	
11-Sep-20	Variable Cloud	20	North	Morning	Fall	HWY366	Duck spp.	1	E to W	Center east	60	No	
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	Bald Eagle	1	W to E	West	15	Yes	Passed through wires, navigated them with confidence
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	Mallard	20	W to E	West	15	Yes	Passed under wires over Missaguash marsh, put up by Eagle
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	Bald Eagle	2	E to W	West	30	Yes	Passed just over wires
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	Mallard	50	E to W	West	20	Yes	Passed under wires
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	Red-winged Blackbird	20	E to W	West	10	No	Passed under wires over marsh cattails
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	Mallard	2	W to E	West	15	Yes	Passed under wires
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	American Wigeon	15	W to E	West	15	Yes	Passed under wires
11-Sep-20	Variable Cloud	20	North	Morning	Fall	PT21	Broadwing Hawk	1	W to E	West	15	Yes	Passed under wires
6-Oct-20	Variable Clouds	10	South	Evening	Fall	HWY366	Duck spp.	3	W to E	Center	60	No	
6-Oct-20	Variable Clouds	10	South	Evening	Fall	HWY366	Bald Eagle	1	W to E	Center	100	No	
6-Oct-20	Variable Clouds	10	South	Evening	Fall	HWY366	American Crow	1	W to E	East	60	No	
6-Oct-20	Variable Clouds	10	South	Evening	Fall	PT21	American Wigeon	13	W to E	West	10	Yes	Passed under wires
6-Oct-20	Variable Clouds	10	South	Evening	Fall	PT21	Red-tailed Hawk	1	W to E	West	10	Yes	Passed under wires
6-Oct-20	Variable Clouds	10	South	Evening	Fall	HWY366	Canada Goose	50	N/A	N/A	N/A	No	Large flock of geese audible in distance. Not moving
6-Oct-20	Variable Clouds	10	South	Evening	Fall	HWY366	Bald Eagle	1	E to W	Center east	80	No	
6-Oct-20	Variable Clouds	10	South	Evening	Fall	HWY366	American Crow	2	W to E	Center east	30	No	
6-Oct-20	Variable Clouds	10	South	Evening	Fall	HWY366	American Crow	12	W to E	Center	40	No	
21-Oct-20	Overcast	<10	South west	Evening	Fall	HWY366	Bald Eagle	1	W to E	Center	40	No	
21-Oct-20	Overcast	<10	South west	Evening	Fall	PT21	Bald Eagle	1	W to E	West	20	Yes	Passed just over wires
21-Oct-20	Overcast	<10	South west	Evening	Fall	PT21	Duck spp.	4	W to E	West	10	Yes	Passed under wires, put up by eagle
21-Oct-20	Overcast	<10	South west	Evening	Fall	PT21	Semipalmated Plover	5	W to E	West	10	No	Passed under wires

Date	Sky	Wind Speed (km/h)	Wind Direction	Evening / Morning	Spring / Fall	Survey Location	Species	Number	Direction of Flight	Area of Crossing	Height at Crossing (m) Above Ground	Interaction with Powerlines?	Notes
22-Oct-20	Sunny	20	East	Morning	Fall	PT21	Duck spp.	1	W to E	West	1	No	Passed just over wires
22-Oct-20	Sunny	20	East	Morning	Fall	PT21	Duck spp.	15	W to E	West	10	Yes	Passed under wires
22-Oct-20	Sunny	20	East	Morning	Fall	PT21	Common Raven	2	W to E	West	20	No	
22-Oct-20	Sunny	20	East	Morning	Fall	PT21	Duck spp.	12	E to W	West	10	Yes	
22-Oct-20	Sunny	20	East	Morning	Fall	PT21	Common Raven	2	W to E	West	20	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Rock Pigeon	3	W to E	Center east	60	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Canada Goose	2	E to W	Center	80	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Duck spp.	25	E to W	Center	60	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Duck spp.	15	W to E	Center	10	Yes	Passed just over wires
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Duck spp.	35	W to E	Center	40	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Duck spp.	15	W to E	Center	40	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Common Raven	2	E to W	Center	20	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Double-crested Cormorant	150	W to E	Center	80	No	Large flock of cormorants. Movement may be correlated with tides, which at time of observation is ebbing. Birds are also moving with the wind.
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Canada Goose	15	E to W	Center	60	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Canada Goose	5	E to W	Center west	80	No	
22-Oct-20	Sunny	20	East	Morning	Fall	HWY366	Double-crested Cormorant	4	W to E	Center	80	No	
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	HWY366	Canada Goose	12	W to E	Center	40	No	
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	HWY366	Canada Goose	12	W to E	Center	40	No	
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	HWY366	Bald Eagle	1	W to E	Center	60	No	
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	HWY366	Osprey	1	E to W	Center	40	No	
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	HWY366	American Crow	3	W to E	Center	60	No	
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	HWY366	Bald Eagle	1	E to W	West	40	No	
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	PT21	European Starling	10	E to W	West	10	Yes	Passed under wires
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	PT21	American Crow	2	W to E	West	10	Yes	Passed under wires
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	PT21	American Black Duck	1	W to E	West	15	Yes	Passed just over wires
23-Aug-20	Variable Cloud	36	South west	Evening	Fall	PT21	Canada Goose	16	W to E	West	30	No	
24-Sep-20	Variable Cloud	20	west	evening	Fall	HWY366	Bald eagle	1	E to W	Center	100	NO	
24-Sep-20	Variable Cloud	20	west	evening	Fall	HWY366	American crow	1	W to E	East	20	No	
24-Sep-20	Variable Cloud	20	west	evening	Fall	HWY366	Bald Eagle	1	W to E	West	100	No	
24-Sep-20	Variable Cloud	20	west	evening	Fall	HWY366	Common grackle	5	W to E	East	60	No	
24-Sep-20	Variable Cloud	20	west	evening	Fall	HWY366	Common grackle	2	W to E	East	40	No	
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	American Wigeon	12	W to E	West	10	Yes	Passed under wires
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	Broadwing Hawk	1	W to E	West	10	Yes	
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	Turkey Vulture	1	W to E	West	10	Yes	Passed under wires
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	Red-winged Blackbird	8	W to E	West	10	Yes	
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	American Black Duck	2	E to W	West	40	No	
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	Duck spp.	200	W to E	West	10	Yes	Large mixed species duck flock passed under wires
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	Duck spp.	3	W to E	West	10	Yes	Passed under wires, put up by Red-tailed Hawk
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	Red-tailed Hawk	1	W to E	West	10	Yes	Passed under wires
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	American Wigeon	2	W to E	West	10	Yes	Passed under wires
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	American Wigeon	2	W to E	West	10	Yes	Passed under wires
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	Blue-wing Teal	2	W to E	West	10	Yes	Passed under wires
24-Sep-20	Variable Cloud	30	West	Evening	Fall	PT21	American Wigeon	8	W to E	West	10	Yes	Passed under wires
25-Sep-20	Clear	<10	West	Morning	Fall	HWY366	Herring Gull	2	W to E	Center	100	No	
25-Sep-20	Clear	<10	West	Morning	Fall	HWY366	Common grackle	24	E to W	Center	40	No	
25-Sep-20	Clear	<10	West	Morning	Fall	HWY366	Duck spp.	1	W to E	Center west	80	No	
25-Sep-20	Clear	<10	West	Morning	Fall	HWY366	Common grackle	8	E to W	East	60	No	

Table C2: L8001 / 8005 Transmission Line Avian Assessment - Infrastructure Interaction Surveys - Onslow Section Study Area Results

Date	Sky	Wind Speed (km/h)	Wind Direction	Morning / Evening	Spring / Fall	Survey Location	Species	Number	Direction of Flight	Area of Crossing	Height at Crossing (m) Above Ground	Interaction with Powerlines?	Notes
7-May-20	Overcast	<10	West	Evening	Spring	PT31	Black Duck	3	E to W	East	15	Yes	Ducks passed within a few meters of the powerlines
7-May-20	Overcast	<10	West	Evening	Spring	PT31	Common Raven	1	W to E	East	20	Yes	Passed within a few meters of the powerlines, confident
7-May-20	Overcast	<10	West	Evening	Spring	PT32	Duck spp.	1	W to E	Center	40	No	
7-May-20	Overcast	<10	West	Evening	Spring	PT32	American Crow	1	W to E	Center	80	No	
7-May-20	Overcast	<10	West	Evening	Spring	PT32	Duck spp.	1	E to W	Center	20	Yes	
7-May-20	Overcast	<10	West	Evening	Spring	PT32	American Crow	1	E to W	Center	100	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	PT34	Bald Eagle	1	E to W	West	100	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	PT33	Broadwing Hawk	1	W to E	West	100	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	PT33	Common Grackle	6	W to E	West	10	No	Grackles passed under wires
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 32	Common Raven	1	W to E	Center	80	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 32	Redtail Hawk	1	W to E	Center	80	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 32	American Eagle	1	E to W	Center	80	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 32	Redtail Hawk	1	W to E	Center	80	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 32	Merlin	1	W to E	Center East	20	Yes	Hunting in powerline corridor.
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 32	Common Raven	1	E to W	Center	30	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 32	Common Raven	1	E to W	Center	30	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 31	Broadwing Hawk	1	E to W	East	100	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 31	Merlin	1	W to E	East	20	Yes	Hunting in powerline corridor.
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 31	Broadwing Hawk	1	W to E	East	40	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 31	Redtail Hawk	1	W to E	East	40	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 31	Common Raven	1	W to E	East	20	Yes	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 31	Common Raven	1	W to E	East	100	No	
20-May-20	Variable Cloud	26	Northwest	Evening	Spring	Pt 31	Common Raven	1	W to E	East	50	No	
4-Jun-20	Variable Cloud	30	South	Morning	Spring	PT32	American Crow	1	W to E	Center	80	No	
4-Jun-20	Variable Cloud	30	South	Morning	Spring	PT32	Bald Eagle	2	W to E	Center east	100	No	
4-Jun-20	Variable Cloud	30	South	Morning	Spring	PT32	American Crow	2	W to E	Center	20	Yes	
4-Jun-20	Variable Cloud	30	South	Morning	Spring	PT32	Bald Eagle	1	W to E	Center	80	No	
4-Jun-20	Variable Cloud	30	South	Morning	Spring	PT31	Redtail Hawk	1	E to W	East	30	Yes	Hunting in powerline corridor.
10-Sep-20	Sunny	<10	South	Evening	Fall	PT32	Bald Eagle	2	E to W	West	100	No	
10-Sep-20	Sunny	<10	South	Evening	Fall	PT32	Black-backed Gull	2	E to W	West	100	No	
10-Sep-20	Sunny	<10	South	Evening	Fall	PT32	Bald Eagle	2	E to W	West	30	No	
10-Sep-20	Sunny	<10	South	Evening	Fall	PT32	Blue Jay	3	W to E	West	30	No	
10-Sep-20	Sunny	<10	South	Evening	Fall	PT32	American Crow	6	W to E	East	30	No	
10-Sep-20	Sunny	<10	South	Evening	Fall	PT32	Bald Eagle	1	W to E	West	30	No	
10-Sep-20	Sunny	<10	South	Evening	Fall	PT32	Blue Jay	4	W to E	East	30	No	
11-Sep	Overcast	20	North	Morning	Fall	PT31	Merlin	1	W to E	East	20	Yes	Hunting in powerline corridor.
11-Sep	Overcast	20	North	Morning	Fall	PT32	American Crow	5	W to E	Center	40	No	
11-Sep	Clear	<10	West	Evening	Fall	Pt31	Bald Eagle	2	E to W	West	100	No	
11-Sep	Clear	<10	West	Evening	Fall	Pt31	Greater Black-backed Gull	2	E to W	West	100	No	
11-Sep	Clear	<10	West	Evening	Fall	Pt31	Bald Eagle	2	E to W	East	30	No	
11-Sep	Clear	<10	West	Evening	Fall	Pt31	Blue Jay	3	W to E	East	30	No	
11-Sep	Clear	<10	West	Evening	Fall	Pt31	American Crow	6	W to E	East	30	No	
11-Sep	Clear	<10	West	Evening	Fall	Pt31	Bald Eagle	1	W to E	West	30	No	
11-Sep	Clear	<10	West	Evening	Fall	Pt31	Blue Jay	4	W to E	East	30	No	
6-Oct-20	Overcast	10	South	Evening	Fall	Pt 32	American Robin	6	W to E	East	50	No	
6-Oct-20	Overcast	10	South	Evening	Fall	Pt 32	American Crow	2	E to W	east	50	No	
6-Oct-20	Overcast	10	South	Evening	Fall	Pt 32	Canada Goose	160	W to E	East	40	No	Attracted to freshly mowed corn fields in area. Other flocks seen loitering in mowed corn fields in Debert area as well.
22-Oct-20	Overcast	<10	North west	Morning	Fall	PT31	American Crow	2	W to E	Center east	30	No	
22-Oct-20	Overcast	<10	North west	Morning	Fall	PT31	Canada Goose	200	N/A	N/A	N/A	No	Foraging on the ground in nearby corn field
23-Aug-20	Variable Cloud	20	North	Evening	Fall	Pt 31	American Crow	6	W to E	East	30	No	
24-Aug-20	Variable Cloud	20	West	Morning	Fall	Pt 31	Bald Eagle	1	E to W	East	60	No	
24-Aug-20	Variable Cloud	20	West	Morning	Fall	Pt 31	Sharp Shinned Hawk	2	E to W	Center East	40	Yes	Hunting in powerline corridor.
24-Aug-20	Variable Cloud	20	West	Morning	Fall	Pt 31	Merlin	3	E to W	East	20	Yes	Fledged young, hunting in powerline corridor
24-Aug-20	Variable Cloud	20	West	Morning	Fall	Pt 31	Merlin	3	E to W	East	20	Yes	Adults, hunting in powerline corridor