

August 2021

APPENDIX I ECCC-08 TABLES



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Table ECCC-08.1 Summary of Avifauna Surveys

Rationale / Objectives and Study Area	Methods	Results
Attachment 7-B - 2011 Forest Songbird Surveys (2014)		
<p>Rationale / Objectives The study's main objective was to document breeding songbird species present within the Marathon Mineral Claim Area and provide insight regarding forest songbird populations in the areas surveyed.</p> <p>Study Area Transects were selected in areas of current and future exploration within the Marathon Mineral Claim Area (Figure IR50.1): Leprechaun Pond, Valentine Lake East and Frozen Ear Pond.</p>	<p>A series of ten-minute songbird point count surveys were conducted between June 14 and 18, 2011 at locations spaced ~300 m apart. Four transects were completed over five mornings. The ornithologist stood in a fixed location for ten minutes and tallied bird species observed or heard. Surveys commenced at dawn (~0515 h) and no point counts were initiated after 0900 h. Vegetation data was recorded and photographs of habitat were taken at each point count.</p>	<p>Forty-five point counts were conducted. A total of 38 species were identified. The most common species recorded were: white-throated sparrow, ruby-crowned kinglet, Swainson's thrush and yellow-bellied flycatcher. Two federally and provincially listed (threatened) species were detected: olive-sided flycatcher (COSEWIC 2009) and common nighthawk (COSEWIC 2007; SSAC 2007).</p>
Attachment 7-C - 2011 Baseline Waterfowl and Waterfowl Habitat Study (2014)		
<p>Rationale / Objectives The objective was to survey waterfowl use of the Project Area, and identify the types of habitat (i.e., wetlands) within the area of the proposed Project.</p> <p>Study Area The study area is within the Marathon Mineral Claim Area (Figure IR50.1). The Victoria Steadies Sensitive Wildlife Area (SWA) overlaps the study area. The study focussed on the Valentine Lake East Site, the Frozen Ear Pond site and the Leprechaun Pond Site, but only the latter location encompassed waterbodies of sufficient size to support waterfowl.</p>	<p>Waterfowl Breeding Pair Survey: Aerial helicopter surveys were conducted on May 16, 2011. The flight path was oriented according to the presence of waterbodies. Waterfowl observations were recorded, including social status classification (i.e., lone male, lone female, breeding pair, flocked males and number, flocked females and number, mixed flocks and actual number by sex). Waterfowl were described in terms of 'indicated pairs' (Dzubin 1969) to distinguish individuals that would likely breed in a given area.</p> <p>Waterfowl Brood Survey: This survey occurred on July 7, 2011, approximately seven weeks after the breeding pair survey. It focused on locations around Valentine Lake where breeding pairs were observed in May and examined a 50 km stretch of the Victoria River extending northeast and downstream, following similar protocols as for the breeding pair survey. Observations of waterfowl broods were aged following standards outlined in Gollop and Marshall (1954).</p>	<p>Waterfowl Breeding Pair Survey: The following species were observed: common loon, Canada goose and five duck species, including ring-necked duck, American black duck, red-breasted merganser, common goldeneye, and common merganser. Waterfowl were only observed at the Leprechaun Pond Site and in the vicinity of the Frozen Ear Pond Site. No sightings occurred at the Valentine Lake East Site.</p> <p>Waterfowl Brood Survey: Seventy-six observations of seven waterfowl species (and three unidentified species) occurred, including broods and evidence of adult moulting activity. Most of the observations occurred along Victoria River. Broods were common and the age of young ranged from approximately one to six weeks. The same species of waterfowl observed during the breeding pair surveys were also observed in the July brood survey. Waterfowl were only observed at the Leprechaun Pond Site and in the vicinity of the Frozen Ear Pond Site. No sightings occurred at the Valentine Lake East Site.</p> <p>Wetlands Characterization: The majority of the wetland classes encountered were bogs and fens, with shallow water wetlands</p>



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Rationale / Objectives and Study Area	Methods	Results
	<p>Wetlands Characterization: Wetlands were opportunistically evaluated during waterfowl surveys in May 2011. Wetlands and wetland/waterfowl habitats were classified according to the Canadian Wetland Classification System (Warner and Rubec 1997), identifying three levels of wetland features – class, form, and type.</p>	<p>observed in association with lakes and large rivers in the region. Peatlands were further divided into three bog forms (i.e., domed bog, slope bog and basin bog) and two fen forms (i.e., slope fen and ribbed fen).</p>
Attachment 7-E - Waterfowl (2017)		
<p>Rationale / Objectives The study had two objectives:</p> <ol style="list-style-type: none"> 1. To describe wetland productivity in terms of waterfowl species richness and species counts in the study area during spring breeding and fall staging, as well as describing the breeding social structure in the spring breeding survey 2. To assess waterfowl use of wetland habitat by calculating the relative abundance of waterfowl using densities and habitat selection during spring breeding and fall staging surveys <p>Study Area The waterfowl study area was defined during 2011 baseline surveys and includes the Project footprint, the Sensitive Wildlife Area, and wetland habitats within the Mineral Claim Area (Figure IR50.1).</p>	<p>Surveys: Spring breeding surveys occurred on June 6, 2017 and fall staging surveys were completed on September 27, 2017. Transects and protocols were repeated from baseline surveys conducted in 2011.</p> <p>Productivity: Guilds of waterfowl (ducks) and waterbirds (geese and shorebirds) that use wetlands were included to assess the productivity of wetlands in the waterfowl study. A guild of raptors was also included due to observations during surveys and known predatory behaviour on waterfowl (Buehler 2000, Smith et al. 2011).</p> <p>Habitat Use: The relative abundance of the guilds (described above) was determined based on the density of species in wetland habitats along transects within the waterfowl study area.</p>	<p>Productivity: Waterfowl productivity was the highest during the spring breeding survey in 2017 for both species richness and counts. The highest counts were amongst the guilds of geese, dabbling ducks, and diving ducks. No species at risk were observed during surveys.</p> <p>Habitat Use: Dabbling ducks, diving ducks, and geese had the highest densities in the waterfowl study. Analyses indicated that waterfowl were selecting preferred wetland habitats rather than being distributed randomly across the landscape.</p> <p>Waterfowl productivity and habitat use indicate that the wetland habitats in the waterfowl study area are used by waterfowl during spring breeding and fall staging.</p>



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Table ECCC-08.1 Summary of Avifauna Surveys

Rationale / Objectives and Study Area	Methods	Results
Attachment 7-H - Forest Songbird Survey (2019)		
<p>Rationale / Objectives Objectives were to:</p> <ol style="list-style-type: none"> 1. Establish the avifauna diversity and develop a list of bird species for the Mineral Claim Area (Figure IR50.1) 2. Determine whether provincially rare species of birds, as determined by the AC CDC, are present in the Project Area 3. Provide information on the location (spatial distribution), population size, and habitat of rare bird taxa occurring within the Project Area 4. Provide information to Marathon for consideration in Project planning <p>Study Area The Study Area is within the Mineral Claim Area (Figure IR50.1). The field sampling plan was created by overlaying the current Project footprint with previously surveyed areas to identify spatial gaps in surveyed areas.</p>	<p>Songbird surveys: Surveys were conducted June 26-28, 2019. Songbird survey sites were visited once during the field program, and observers conducted a 10-minute morning point count at each site, following a protocol based on a modified fixed-radius point count sampling procedure (Bibby et al. 2000). Bird species detected during the point count surveys were recorded. Surveys began near dawn and continued until ~10:00 am each survey morning.</p> <p>Common Night Hawk Survey: Survey was conducted on June 28, 2019. Eight survey stations were established along roads through the Project Area near areas with potential to provide nesting or foraging habitat. The survey was conducted starting ~60 minutes before sunset and continued until up to two hours after sunset. Survey followed a 6-minute passive point count sampling procedure (Canadian Nightjar Survey Protocol 2018).</p>	<p>Songbird surveys: Fifty-two point counts were completed in various habitat types including forested and wetland habitats. Forty-nine species, including two incidental observations of common tern and tree swallow, were identified during the point counts. Excluding incidental observations, the most abundant species observed across the point counts was white-throated sparrow (59 individuals), yellow-bellied flycatcher (52 individuals), and ruby-crowned kinglet (35 individuals).</p> <p>Common Night Hawk Survey No common nighthawks were observed or heard during the field surveys. One SAR, olive-sided flycatcher was recorded in the Project Area. A second SAR, rusty blackbird was recorded outside the Project Area but in the LAA. An additional two SOCC, Nashville warbler and bay-breasted warbler, were also encountered in the Project Area.</p>

Table ECCC-08.2 Location of Detailed Survey Results and Maps

Survey	Detailed Survey Results		Map Location
2011 Forest Songbird Surveys	Table IR50.3	2011 Songbird Survey Results	Figure IR50.2
2011 Baseline Waterfowl and Waterfowl Habitat Survey	Table IR50.4	2011 Spring Breeding Waterfowl Results	Figure IR50.2
	Table IR50.5	2011 Brood Survey Results	Figure IR50.2
2017 Waterfowl Survey	Table IR50.6	2017 Spring Breeding Waterfowl Survey Results	Figure IR50.2
	Table IR50.7	2017 Fall Staging Waterfowl Survey Results	
2019 Avifauna Baseline Survey	EIS Attachment 7-H - Forest Songbird Survey (2019) Appendix B, Table B.4		Figure IR50.2



Table ECC-08.3 2011 Songbird Survey Results

Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes			
															<50m	50-100m	>100m	<50m	50-100m	>100m	
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	Olive-sided Flycatcher							1
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	Yellow-rumped Warbler	1						
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	Black-throated Green Warbler						1	
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	Blackpoll Warbler	1				1		
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	Lincoln's Sparrow	1	1				1	1
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	White-throated Sparrow		2				2	
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	Dark-eyed Junco	1				1	1	
14-Jun-11	335	528	538	100	10	lite drizzle; fog	south	0-1	barren hilltop	larch	-	larch, black spruce, rhodora, balsam fir	Cladina lichen, crowberry, rock	Common Yellowthroat			1				2
14-Jun-11	336	550	600	100	10		0	0	Black Spruce scrub	black spruce, white birch	-	black spruce, rhodora	bottle brush,grasses, sedges, sphagnum moss	Yellow-bellied Flycatcher		1				1	
14-Jun-11	336	550	600	100	10		0	0	Black Spruce scrub	black spruce, white birch	-	black spruce, rhodora	bottle brush,grasses, sedges, sphagnum moss	Ruby-crowned Kinglet		1			1		1
14-Jun-11	336	550	600	100	10		0	0	Black Spruce scrub	black spruce, white birch	-	black spruce, rhodora	bottle brush,grasses, sedges, sphagnum moss	Swainson's Thrush		1			1		
14-Jun-11	336	550	600	100	10		0	0	Black Spruce scrub	black spruce, white birch	-	black spruce, rhodora	bottle brush,grasses, sedges, sphagnum moss	White-throated Sparrow		1	1			1	2
14-Jun-11	336	550	600	100	10		0	0	Black Spruce scrub	black spruce, white birch	-	black spruce, rhodora	bottle brush,grasses, sedges, sphagnum moss	Dark-eyed Junco							1
14-Jun-11	337	615	625	100	10		0	0	fen	larch	-	black spruce, honeysuckle	grasses, sedges	Ruby-crowned Kinglet							1
14-Jun-11	337	615	625	100	10		0	0	fen	larch	-	black spruce, honeysuckle	grasses, sedges	Yellow-rumped Warbler						1	
14-Jun-11	337	615	625	100	10		0	0	fen	larch	-	black spruce, honeysuckle	grasses, sedges	Blackpoll Warbler		1					
14-Jun-11	337	615	625	100	10		0	0	fen	larch	-	black spruce, honeysuckle	grasses, sedges	Lincoln's Sparrow							1
14-Jun-11	337	615	625	100	10		0	0	fen	larch	-	black spruce, honeysuckle	grasses, sedges	Swamp Sparrow		1				1	
14-Jun-11	337	615	625	100	10		0	0	fen	larch	-	black spruce, honeysuckle	grasses, sedges	White-throated Sparrow	1	2			1		3
14-Jun-11	337	615	625	100	10		0	0	fen	larch	-	black spruce, honeysuckle	grasses, sedges	Common Yellowthroat	1				1		
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	Yellow-bellied Flycatcher		1				1	
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	Gray Jay					1		
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	Ruby-crowned Kinglet		1				1	
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	Blackpoll Warbler		1				1	
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	Lincoln's Sparrow	1						
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	White-throated Sparrow		1	1			1	1
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	Dark-eyed Junco	1				1		
14-Jun-11	338	641	651	100	10	fog		0	bog/fen		0	larch, black spruce, Betula sp.	grasses, sedges, sphagnum moss, bog rosemary, pale bog laurel	Merlin							1
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Common Loon				1			
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Greater Yellowlegs	1						
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Yellow-bellied Flycatcher						1	
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Ruby-crowned Kinglet		1					1
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Swainson's Thrush							1
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Hermit Thrush							1
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Lincoln's Sparrow							1
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	White-throated Sparrow	1	2				2	
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Dark-eyed Junco		1				1	
14-Jun-11	339	700	710	100	11		0	0	bog	larch, black spruce	-	black spruce, sheep laurel	bottlebrush, sphagnum moss, grasses, sedges	Common Yellowthroat							
14-Jun-11	340	720	730	100	12		0	0	mature forest	black spruce, balsam fir, white birch	80	black spruce	NA	Yellow-bellied Flycatcher							
14-Jun-11	340	720	730	100	12		0	0	mature forest	black spruce, balsam fir, white birch	80	black spruce	NA	Ruby-crowned Kinglet							
14-Jun-11	340	720	730	100	12		0	0	mature forest	black spruce, balsam fir, white birch	80	black spruce	NA	Swainson's Thrush							
14-Jun-11	340	720	730	100	12		0	0	mature forest	black spruce, balsam fir, white birch	80	black spruce	NA	Hermit Thrush							
14-Jun-11	340	720	730	100	12		0	0	mature forest	black spruce, balsam fir, white birch	80	black spruce	NA	Yellow-rumped Warbler							
14-Jun-11	340	720	730	100	12		0	0	mature forest	black spruce, balsam fir, white birch	80	black spruce	NA	Black and white Warbler							
14-Jun-11	340	720	730	100	12		0	0	mature forest	black spruce, balsam fir, white birch	80	black spruce	NA	White-throated Sparrow							
14-Jun-11	341	742	752	100	13		0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	Hermit Thrush		1				1	
14-Jun-11	341	742	752	100	13		0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	Yellow-rumped Warbler	2				1		



Table ECCC-08.3 2011 Songbird Survey Results

Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes		
															<50m	50-100m	>100m	<50m	50-100m	>100m
14-Jun-11	341	742	752	100	13	0	0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	Blackpoll Warbler	1			1		
14-Jun-11	341	742	752	100	13	0	0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	Lincoln's Sparrow	1			1		
14-Jun-11	341	742	752	100	13	0	0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	White-throated Sparrow		1	2		1	2
14-Jun-11	341	742	752	100	13	0	0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	Common Yellowthroat	1					
14-Jun-11	341	742	752	100	13	0	0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	Pine Siskin		4				
14-Jun-11	341	742	752	100	13	0	0	0	black spruce scrub	black spruce, larch	-	rhodora, sheep laurel	Cladina lichen, bunchberry, rock	American Goldfinch		4				
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Greater Yellowlegs		1				
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Hermit Thrush	1					
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Yellow-rumped Warbler		1			1	
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Black and white Warbler	1					
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Lincoln's Sparrow	1			1		
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	White-throated Sparrow	1			1	2	
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Dark-eyed Junco					1	
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Wilson's Snipe	1					
14-Jun-11	342	805	815	75	14	0	0	0	bog		0	larch, black spruce, labrador tea	grasses, sedges, bottlebrush	Common Yellowthroat	1					
14-Jun-11	343	830	840	70	14	0	0	0	mature forest	balsam fir, black spruce, larch	60	balsam fir, black spruce, larch	bunchberry, crowberry	Magnolia Warbler	1			1		
14-Jun-11	343	830	840	70	14	0	0	0	mature forest	balsam fir, black spruce, larch	60	balsam fir, black spruce, larch	bunchberry, crowberry	Lincoln's Sparrow		1				
14-Jun-11	343	830	840	70	14	0	0	0	mature forest	balsam fir, black spruce, larch	60	balsam fir, black spruce, larch	bunchberry, crowberry	White-throated Sparrow			1		2	2
14-Jun-11	343	830	840	70	14	0	0	0	mature forest	balsam fir, black spruce, larch	60	balsam fir, black spruce, larch	bunchberry, crowberry	Common Yellowthroat		1			1	
14-Jun-11	344	850	900	45	15	0	0	0	forest (not mature)	balsam fir, black spruce	-	balsam fir, black spruce	feather moss, bunchberry	Yellow-bellied Flycatcher	1			1		
14-Jun-11	344	850	900	45	15	0	0	0	forest (not mature)	balsam fir, black spruce	-	balsam fir, black spruce	feather moss, bunchberry	Ruby-crowned Kinglet	1			2		
14-Jun-11	344	850	900	45	15	0	0	0	forest (not mature)	balsam fir, black spruce	-	balsam fir, black spruce	feather moss, bunchberry	Swainson's Thrush		1			1	
14-Jun-11	344	850	900	45	15	0	0	0	forest (not mature)	balsam fir, black spruce	-	balsam fir, black spruce	feather moss, bunchberry	Yellow-rumped Warbler	1			1		
14-Jun-11	344	850	900	45	15	0	0	0	forest (not mature)	balsam fir, black spruce	-	balsam fir, black spruce	feather moss, bunchberry	Northern Waterthrush	2				1	
14-Jun-11	344	850	900	45	15	0	0	0	forest (not mature)	balsam fir, black spruce	-	balsam fir, black spruce	feather moss, bunchberry	Swainson's Thrush					1	
14-Jun-11	344	850	900	45	15	0	0	0	forest (not mature)	balsam fir, black spruce	-	balsam fir, black spruce	feather moss, bunchberry	Wilson's Snipe		1				
15-Jun-11	345	527	537	100	8	0	0	0	riparian	balsam fir	-	sweet gale, leatherleaf	violets, grasses, sedges	Greater Yellowlegs			1			
15-Jun-11	345	527	537	100	8	0	0	0	riparian	balsam fir	-	sweet gale, leatherleaf	violets, grasses, sedges	Yellow-rumped Warbler	2					
15-Jun-11	345	527	537	100	8	0	0	0	riparian	balsam fir	-	sweet gale, leatherleaf	violets, grasses, sedges	White-throated Sparrow		2	1		3	1
15-Jun-11	345	527	537	100	8	0	0	0	riparian	balsam fir	-	sweet gale, leatherleaf	violets, grasses, sedges	Dark-eyed Junco			1			
15-Jun-11	345	527	537	100	8	0	0	0	riparian	balsam fir	-	sweet gale, leatherleaf	violets, grasses, sedges	Common Yellowthroat		1			1	
15-Jun-11	346	545	555	100	8	0	0	0	riparian	black spruce, alder	-	black spruce, alder	violets, bunchberry red raspberry	Greater Yellowlegs		1				
15-Jun-11	346	545	555	100	8	0	0	0	riparian	black spruce, alder	-	black spruce, alder	violets, bunchberry red raspberry	Boreal Chickadee					1	
15-Jun-11	346	545	555	100	8	0	0	0	riparian	black spruce, alder	-	black spruce, alder	violets, bunchberry red raspberry	Swainson's Thrush					1	
15-Jun-11	346	545	555	100	8	0	0	0	riparian	black spruce, alder	-	black spruce, alder	violets, bunchberry red raspberry	Blackpoll Warbler	1			1		
15-Jun-11	346	545	555	100	8	0	0	0	riparian	black spruce, alder	-	black spruce, alder	violets, bunchberry red raspberry	Lincoln's Sparrow		1				
15-Jun-11	346	545	555	100	8	0	0	0	riparian	black spruce, alder	-	black spruce, alder	violets, bunchberry red raspberry	White-throated Sparrow	1	3		1	3	
15-Jun-11	346	545	555	100	8	0	0	0	riparian	black spruce, alder	-	black spruce, alder	violets, bunchberry red raspberry	Common Yellowthroat	1			1		
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Greater Yellowlegs						1
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Boreal Chickadee				1		
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Ruby-crowned Kinglet			1		1	
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Swainson's Thrush						1
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Northern Waterthrush					1	
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Swamp Sparrow			1			
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	White-throated Sparrow		2			3	
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Dark-eyed Junco		1				
15-Jun-11	347	609	619	100	8	0	NE	1	barren hill		0	balsam fir, black spruce tuckamore (patchy), sheep laurel, leatherleaf	lichen	Common Yellowthroat		2			2	



Table ECCC-08.3 2011 Songbird Survey Results

Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes			
															<50m	50-100m	>100m	<50m	50-100m	>100m	
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	Greater Yellowlegs							1
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	Yellow-bellied Flycatcher							1
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	Ruby-crowned Kinglet		1					
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	Hermit Thrush				1			1
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	Yellow-rumped Warbler							1
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	Lincoln's Sparrow		1					1
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	White-throated Sparrow		2	2			2	2
15-Jun-11	348	633	643	100	8	0	NE	1 to 2	barren hill	black spruce	-	larch, black spruce, balsam fir	crowberry, lichen	Dark-eyed Junco		1			1		
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	Common Loon	4						
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	Boreal Chickadee							1
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	Ruby-crowned Kinglet							1
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	Hermit Thrush		2					2
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	American Robin		1					
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	Swamp Sparrow		1					
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	White-throated Sparrow		1	1	1			
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	Dark-eyed Junco		1					1
15-Jun-11	349	655	705	100	9	0	NE	1	barren hill		0	rhodora, larch, sheep laurel, black spruce	crowberry, lichen	Pine Siskin		1					
15-Jun-11	350	714	724	100	9	0		0	mature forest	balsam fir, black spruce white birch	70	balsam fir, black spruce	stairstep moss, bunchberry, wild lily-of-the-valley	Yellow-bellied Flycatcher	1				1		
15-Jun-11	350	714	724	100	9	0		0	mature forest	balsam fir, black spruce white birch	70	balsam fir, black spruce	stairstep moss, bunchberry, wild lily-of-the-valley	Olive-sided Flycatcher		1					
15-Jun-11	350	714	724	100	9	0		0	mature forest	balsam fir, black spruce white birch	70	balsam fir, black spruce	stairstep moss, bunchberry, wild lily-of-the-valley	Hermit Thrush		1					1
15-Jun-11	350	714	724	100	9	0		0	mature forest	balsam fir, black spruce white birch	70	balsam fir, black spruce	stairstep moss, bunchberry, wild lily-of-the-valley	Yellow-rumped Warbler					1		
15-Jun-11	350	714	724	100	9	0		0	mature forest	balsam fir, black spruce white birch	70	balsam fir, black spruce	stairstep moss, bunchberry, wild lily-of-the-valley	White-throated Sparrow		1	1	1	1		
15-Jun-11	350	714	724	100	9	0		0	mature forest	balsam fir, black spruce white birch	70	balsam fir, black spruce	stairstep moss, bunchberry, wild lily-of-the-valley	Northern Flicker		1				1	1
15-Jun-11	350	714	724	100	9	0		0	mature forest	balsam fir, black spruce white birch	70	balsam fir, black spruce	stairstep moss, bunchberry, wild lily-of-the-valley	unknown woodpecker tapping					1		
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	Yellow-bellied Flycatcher	2				1		
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	Olive-sided Flycatcher							1
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	Ruby-crowned Kinglet		1					1
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	Hermit Thrush		1					1
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	Magnolia Warbler		1					
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	Yellow-rumped Warbler	1				1		
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	Palm Warbler	1				1		
15 June 2012	351	734	744	100	8	0		0	black spruce scrub	black spruce, larch	-	black spruce, sheep laurel, rhodora, blueberry	NA	White-throated Sparrow		2	1			2	1
15 June 2012	352	754	804	100	9	0		0	mature forest	black spruce, balsam fir, white birch	-	black spruce, balsam fir	bunchberry, red raspberry, stairstep moss	Yellow-bellied Flycatcher		1				1	
15 June 2012	352	754	804	100	9	0		0	mature forest	black spruce, balsam fir, white birch	-	black spruce, balsam fir	bunchberry, red raspberry, stairstep moss	Olive-sided Flycatcher	1				1		
15 June 2012	352	754	804	100	9	0		0	mature forest	black spruce, balsam fir, white birch	-	black spruce, balsam fir	bunchberry, red raspberry, stairstep moss	Ruby-crowned Kinglet	1	1			2		
15 June 2012	352	754	804	100	9	0		0	mature forest	black spruce, balsam fir, white birch	-	black spruce, balsam fir	bunchberry, red raspberry, stairstep moss	Hermit Thrush					1		1
15 June 2012	352	754	804	100	9	0		0	mature forest	black spruce, balsam fir, white birch	-	black spruce, balsam fir	bunchberry, red raspberry, stairstep moss	Palm Warbler							1
15 June 2012	352	754	804	100	9	0		0	mature forest	black spruce, balsam fir, white birch	-	black spruce, balsam fir	bunchberry, red raspberry, stairstep moss	White-throated Sparrow		1	1			1	1
15-Jun-11	353	814	824	100	9	0	NE	2	bog		0	black spruce, larch	sphagnum moss	Yellow-bellied Flycatcher		1				1	
15-Jun-11	353	814	824	100	9	0	NE	2	bog		0	black spruce, larch	sphagnum moss	Hermit Thrush					1		1



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Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes				
															<50m	50-100m	>100m	<50m	50-100m	>100m		
15-Jun-11	353	814	824	100	9	0	NE	2	bog	0	0	black spruce, larch	sphagnum moss	Blackpoll Warbler						1		
15-Jun-11	353	814	824	100	9	0	NE	2	bog	0	0	black spruce, larch	sphagnum moss	Lincoln's Sparrow	1							
15-Jun-11	353	814	824	100	9	0	NE	2	bog	0	0	black spruce, larch	sphagnum moss	White-throated Sparrow		2				1		
15-Jun-11	353	814	824	100	9	0	NE	2	bog	0	0	black spruce, larch	sphagnum moss	Dark-eyed Junco		1				1		
15-Jun-11	353	814	824	100	9	0	NE	2	bog	0	0	black spruce, larch	sphagnum moss	Common Yellowthroat		1				1		
15-Jun-11	354	832	842	100	9	0	NE	1	scrubby forest, wet	black spruce, larch, white birch	20	black spruce, Labrador tea, rhodora, meadow rue	bottlebrush, grasses, sedges, wild lily-of-the-valley	Yellow-bellied Flycatcher		1				1		
15-Jun-11	354	832	842	100	9	0	NE	1	scrubby forest, wet	black spruce, larch, white birch	20	black spruce, Labrador tea, rhodora, meadow rue	bottlebrush, grasses, sedges, wild lily-of-the-valley	Boreal Chickadee	1							
15-Jun-11	354	832	842	100	9	0	NE	1	scrubby forest, wet	black spruce, larch, white birch	20	black spruce, Labrador tea, rhodora, meadow rue	bottlebrush, grasses, sedges, wild lily-of-the-valley	Ruby-crowned Kinglet	1	1				1	1	
15-Jun-11	354	832	842	100	9	0	NE	1	scrubby forest, wet	black spruce, larch, white birch	20	black spruce, Labrador tea, rhodora, meadow rue	bottlebrush, grasses, sedges, wild lily-of-the-valley	Swainson's Thrush				1			1	
15-Jun-11	354	832	842	100	9	0	NE	1	scrubby forest, wet	black spruce, larch, white birch	20	black spruce, Labrador tea, rhodora, meadow rue	bottlebrush, grasses, sedges, wild lily-of-the-valley	Northern Waterthrush		1					1	
15-Jun-11	354	832	842	100	9	0	NE	1	scrubby forest, wet	black spruce, larch, white birch	20	black spruce, Labrador tea, rhodora, meadow rue	bottlebrush, grasses, sedges, wild lily-of-the-valley	White-throated Sparrow		1	1			1		
15-Jun-11	355	855	905	100	10	0	NE	2	scrubby bog	black spruce, balsam fir	-	black spruce	sphagnum moss, bunchberry, yellow bluebead lily, bottlebrush	Yellow-bellied Flycatcher	1							
15-Jun-11	355	855	905	100	10	0	NE	2	scrubby bog	black spruce, balsam fir	-	black spruce	sphagnum moss, bunchberry, yellow bluebead lily, bottlebrush	Ruby-crowned Kinglet		2		1	1			
15-Jun-11	355	855	905	100	10	0	NE	2	scrubby bog	black spruce, balsam fir	-	black spruce	sphagnum moss, bunchberry, yellow bluebead lily, bottlebrush	Swainson's Thrush		1						
15-Jun-11	355	855	905	100	10	0	NE	2	scrubby bog	black spruce, balsam fir	-	black spruce	sphagnum moss, bunchberry, yellow bluebead lily, bottlebrush	Hermit Thrush	1					1		
15-Jun-11	355	855	905	100	10	0	NE	2	scrubby bog	black spruce, balsam fir	-	black spruce	sphagnum moss, bunchberry, yellow bluebead lily, bottlebrush	Blackpoll Warbler				1				
15-Jun-11	355	855	905	100	10	0	NE	2	scrubby bog	black spruce, balsam fir	-	black spruce	sphagnum moss, bunchberry, yellow bluebead lily, bottlebrush	White-throated Sparrow		1				2	1	
15-Jun-11	355	855	905	100	10	0	NE	2	scrubby bog	black spruce, balsam fir	-	black spruce	sphagnum moss, bunchberry, yellow bluebead lily, bottlebrush	Common Yellowthroat				1				
16-Jun-11	359	722	732	100	6	lite rain	N	2 to 3	mature forest	black spruce, larch, white birch	65	black spruce, sheep laurel, blueberry	bunchberry	Yellow-bellied Flycatcher		1				1		
16-Jun-11	359	722	732	100	6	lite rain	N	2 to 3	mature forest	black spruce, larch, white birch	65	black spruce, sheep laurel, blueberry	bunchberry	Swainson's Thrush		1				1		
16-Jun-11	359	722	732	100	6	lite rain	N	2 to 3	mature forest	black spruce, larch, white birch	65	black spruce, sheep laurel, blueberry	bunchberry	Yellow-rumped Warbler	1			1				
16-Jun-11	359	722	732	100	6	lite rain	N	2 to 3	mature forest	black spruce, larch, white birch	65	black spruce, sheep laurel, blueberry	bunchberry	Northern Waterthrush		1				1		
16-Jun-11	359	722	732	100	6	lite rain	N	2 to 3	mature forest	black spruce, larch, white birch	65	black spruce, sheep laurel, blueberry	bunchberry	Fox Sparrow		1						
16-Jun-11	359	722	732	100	6	lite rain	N	2 to 3	mature forest	black spruce, larch, white birch	65	black spruce, sheep laurel, blueberry	bunchberry	White-throated Sparrow		1	1					
16-Jun-11	359	722	732	100	6	lite rain	N	2 to 3	mature forest	black spruce, larch, white birch	65	black spruce, sheep laurel, blueberry	bunchberry	Dark-eyed Junco	1			1				
16-Jun-11	361	741	751	100	6	lite mist	N	2 to 3	mature forest	balsam fir, black spruce, white birch	80	black spruce	feather moss, bunchberry, creeping snowberry	Ruby-crowned Kinglet		1				1		
16-Jun-11	361	741	751	100	6	lite mist	N	2 to 3	mature forest	balsam fir, black spruce, white birch	80	black spruce	feather moss, bunchberry, creeping snowberry	Swainson's Thrush				1				
16-Jun-11	361	741	751	100	6	lite mist	N	2 to 3	mature forest	balsam fir, black spruce, white birch	80	black spruce	feather moss, bunchberry, creeping snowberry	Yellow-rumped Warbler	1							
16-Jun-11	361	741	751	100	6	lite mist	N	2 to 3	mature forest	balsam fir, black spruce, white birch	80	black spruce	feather moss, bunchberry, creeping snowberry	Fox Sparrow		1				1		
16-Jun-11	361	741	751	100	6	lite mist	N	2 to 3	mature forest	balsam fir, black spruce, white birch	80	black spruce	feather moss, bunchberry, creeping snowberry	White-throated Sparrow						1		
16-Jun-11	362	802	812	100	6	drizzle to rain	N	1 to 2	mature forest	black spruce, balsam fir, white birch	65	black spruce, balsam fir	feathermoss	Ruby-crowned Kinglet		1						
16-Jun-11	362	802	812	100	6	drizzle to rain	N	1 to 2	mature forest	black spruce, balsam fir, white birch	65	black spruce, balsam fir	feathermoss	Fox Sparrow		1						
17-Jun-11	364	535	545	100	7	fog		0	0	mature forest	65	black spruce, balsam fir	feather moss, bunchberry	Yellow-bellied Flycatcher	2			2				
17-Jun-11	364	535	545	100	7	fog		0	0	mature forest	65	black spruce, balsam fir	feather moss, bunchberry	Swainson's Thrush				1				1
17-Jun-11	364	535	545	100	7	fog		0	0	mature forest	65	black spruce, balsam fir	feather moss, bunchberry	Magnolia Warbler	1				1			
17-Jun-11	364	535	545	100	7	fog		0	0	mature forest	65	black spruce, balsam fir	feather moss, bunchberry	Yellow-rumped Warbler				1				
17-Jun-11	364	535	545	100	7	fog		0	0	mature forest	65	black spruce, balsam fir	feather moss, bunchberry	Black-throated Green Warbler	1							
17-Jun-11	364	535	545	100	7	fog		0	0	mature forest	65	black spruce, balsam fir	feather moss, bunchberry	Northern Waterthrush		1						



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Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes			
															<50m	50-100m	>100m	<50m	50-100m	>100m	
17-Jun-11	364	535	545	100	7	fog		0	mature forest	balsam fir, black spruce, white birch	65	black spruce, balsam fir	feather moss, bunchberry	Mourning Warbler						1	
17-Jun-11	364	535	545	100	7	fog		0	mature forest	balsam fir, black spruce, white birch	65	black spruce, balsam fir	feather moss, bunchberry	Fox Sparrow		2				1	
17-Jun-11	364	535	545	100	7	fog		0	mature forest	balsam fir, black spruce, white birch	65	black spruce, balsam fir	feather moss, bunchberry	White-throated Sparrow		2			2		
17-Jun-11	364	535	545	100	7	fog		0	mature forest	balsam fir, black spruce, white birch	65	black spruce, balsam fir	feather moss, bunchberry	Brown Creeper	2			1			
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	Yellow-bellied Flycatcher		1			1		
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	Ruby-crowned Kinglet					1		
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	Swainson's Thrush		1	1		1	1	
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	Northern Waterthrush		1			1		
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	Mourning Warbler		1			1		
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	Fox Sparrow		2			1		
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	White-throated Sparrow		1	1				
17-Jun-11	365	552	602	100	7	fog	N	1	mature forest but scrubby	black spruce, balsam fir, white birch	65	black spruce, sheep laurel	feather moss, creeping snowberry	White-winged Crossbill						11	
17-Jun-11	366	612	622	100	7	drizzle		0	mature forest - a little scrubby because we're on top of hill	black spruce, balsam fir, white birch	65	balsam fir, black spruce	feather moss, creeping snowberry	Olive-sided Flycatcher		1					
17-Jun-11	366	612	622	100	7	drizzle		0	mature forest - a little scrubby because we're on top of hill	black spruce, balsam fir, white birch	65	balsam fir, black spruce	feather moss, creeping snowberry	Ruby-crowned Kinglet		1			1		
17-Jun-11	366	612	622	100	7	drizzle		0	mature forest - a little scrubby because we're on top of hill	black spruce, balsam fir, white birch	65	balsam fir, black spruce	feather moss, creeping snowberry	Swainson's Thrush				1			
17-Jun-11	366	612	622	100	7	drizzle		0	mature forest - a little scrubby because we're on top of hill	black spruce, balsam fir, white birch	65	balsam fir, black spruce	feather moss, creeping snowberry	Magnolia Warbler	1			1			
17-Jun-11	366	612	622	100	7	drizzle		0	mature forest - a little scrubby because we're on top of hill	black spruce, balsam fir, white birch	65	balsam fir, black spruce	feather moss, creeping snowberry	Fox Sparrow				1			
17-Jun-11	366	612	622	100	7	drizzle		0	mature forest - a little scrubby because we're on top of hill	black spruce, balsam fir, white birch	65	balsam fir, black spruce	feather moss, creeping snowberry	White-throated Sparrow				1			1
17-Jun-11	366	612	622	100	7	drizzle		0	mature forest - a little scrubby because we're on top of hill	black spruce, balsam fir, white birch	65	balsam fir, black spruce	feather moss, creeping snowberry	Dark-eyed Junco				1		1	
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	Yellow-bellied Flycatcher	1	1		1			
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	Olive-sided Flycatcher	1			2			
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	Boreal Chickadee				1			
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	Ruby-crowned Kinglet	1			1			
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	Hermit Thrush	1			1			
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	Fox Sparrow					1		
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	White-throated Sparrow				1			
17-Jun-11	367	635	645	100	7			0	bog with scrub	black spruce	-	black spruce, alders	sedges, grasses, bottlebrush	Pine Grosbeak	1						
17-Jun-11	368	702	712	100	8			0	mature forest	black spruce, balsam fir	70	balsam fir	feathermoss, bunchberry	Common Loon							1
17-Jun-11	368	702	712	100	8			0	mature forest	black spruce, balsam fir	70	balsam fir	feathermoss, bunchberry	Swainson's Thrush		1			1		
17-Jun-11	368	702	712	100	8			0	mature forest	black spruce, balsam fir	70	balsam fir	feathermoss, bunchberry	Yellow-rumped Warbler	1						
17-Jun-11	368	702	712	100	8			0	mature forest	black spruce, balsam fir	70	balsam fir	feathermoss, bunchberry	White-throated Sparrow		1			1		
17-Jun-11	369	725	735	100	8			0	scrubby wet area		0	black spruce, alder, kalmia angustifolia	feathermoss, bunchberry	Yellow-bellied Flycatcher	1					1	
17-Jun-11	369	725	735	100	8			0	scrubby wet area		0	black spruce, alder, kalmia angustifolia	feathermoss, bunchberry	Ruby-crowned Kinglet						1	



Table ECCC-08.3 2011 Songbird Survey Results

Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes			
															<50m	50-100m	>100m	<50m	50-100m	>100m	
17-Jun-11	369	725	735	100	8	0	0	0	scrubby wet area	0	0	black spruce, alder, kalmia angustifolia	feathermoss, bunchberry	Hermit Thrush	1					1	
17-Jun-11	369	725	735	100	8	0	0	0	scrubby wet area	0	0	black spruce, alder, kalmia angustifolia	feathermoss, bunchberry	Yellow-rumped Warbler				1			
17-Jun-11	369	725	735	100	8	0	0	0	scrubby wet area	0	0	black spruce, alder, kalmia angustifolia	feathermoss, bunchberry	Black and white Warbler				1			
17-Jun-11	369	725	735	100	8	0	0	0	scrubby wet area	0	0	black spruce, alder, kalmia angustifolia	feathermoss, bunchberry	Fox Sparrow						1	
17-Jun-11	369	725	735	100	8	0	0	0	scrubby wet area	0	0	black spruce, alder, kalmia angustifolia	feathermoss, bunchberry	White-throated Sparrow						1	
17-Jun-11	371	800	810	100	9	0	0	0	mature forest	balsam fir, black spruce	70	balsam fir	feather moss	Ruby-crowned Kinglet						1	
17-Jun-11	371	800	810	100	9	0	0	0	mature forest	balsam fir, black spruce	70	balsam fir	feather moss	Swainson's Thrush						1	
17-Jun-11	371	800	810	100	9	0	0	0	mature forest	balsam fir, black spruce	70	balsam fir	feather moss	Nashville Warbler						1	
17-Jun-11	371	800	810	100	9	0	0	0	mature forest	balsam fir, black spruce	70	balsam fir	feather moss	Magnolia Warbler						1	
17-Jun-11	371	800	810	100	9	0	0	0	mature forest	balsam fir, black spruce	70	balsam fir	feather moss	Yellow-rumped Warbler	1			1			
17-Jun-11	371	800	810	100	9	0	0	0	mature forest	balsam fir, black spruce	70	balsam fir	feather moss	Mourning Warbler				1			
17-Jun-11	371	800	810	100	9	0	0	0	mature forest	balsam fir, black spruce	70	balsam fir	feather moss	White-throated Sparrow			1			1	
17-Jun-11	372	829	839	100	9	0	0	0	mature forest	balsam fir, black spruce, white birch	75	balsam fir, black spruce	feathermoss, bunchberry	Boreal Chickadee	1			1			
17-Jun-11	372	829	839	100	9	0	0	0	mature forest	balsam fir, black spruce, white birch	75	balsam fir, black spruce	feathermoss, bunchberry	Ruby-crowned Kinglet	1			1			
17-Jun-11	372	829	839	100	9	0	0	0	mature forest	balsam fir, black spruce, white birch	75	balsam fir, black spruce	feathermoss, bunchberry	Golden-crowned Kinglet			1				
17-Jun-11	372	829	839	100	9	0	0	0	mature forest	balsam fir, black spruce, white birch	75	balsam fir, black spruce	feathermoss, bunchberry	Black-throated Green Warbler	1			1	1		
17-Jun-11	372	829	839	100	9	0	0	0	mature forest	balsam fir, black spruce, white birch	75	balsam fir, black spruce	feathermoss, bunchberry	Northern Waterthrush	1	1		1	1		
17-Jun-11	372	829	839	100	9	0	0	0	mature forest	balsam fir, black spruce, white birch	75	balsam fir, black spruce	feathermoss, bunchberry	Fox Sparrow			1				1
17-Jun-11	372	829	839	100	9	0	0	0	mature forest	balsam fir, black spruce, white birch	75	balsam fir, black spruce	feathermoss, bunchberry	White-throated Sparrow			2			1	
17-Jun-11	374	845	855	100	9	0	N	1	mature forest	balsam fir, black spruce, white birch	55	white birch, balsam fir, sheep laurel	stairstep moss, feather moss, bunchberry	Greater Yellowlegs							1
17-Jun-11	374	845	855	100	9	0	N	1	mature forest	balsam fir, black spruce, white birch	55	white birch, balsam fir, sheep laurel	stairstep moss, feather moss, bunchberry	Yellow-bellied Flycatcher						1	
17-Jun-11	374	845	855	100	9	0	N	1	mature forest	balsam fir, black spruce, white birch	55	white birch, balsam fir, sheep laurel	stairstep moss, feather moss, bunchberry	Swainson's Thrush			3		3	1	
17-Jun-11	374	845	855	100	9	0	N	1	mature forest	balsam fir, black spruce, white birch	55	white birch, balsam fir, sheep laurel	stairstep moss, feather moss, bunchberry	Northern Waterthrush			1		1	1	
17-Jun-11	374	845	855	100	9	0	N	1	mature forest	balsam fir, black spruce, white birch	55	white birch, balsam fir, sheep laurel	stairstep moss, feather moss, bunchberry	Fox Sparrow			1		1		
17-Jun-11	374	845	855	100	9	0	N	1	mature forest	balsam fir, black spruce, white birch	55	white birch, balsam fir, sheep laurel	stairstep moss, feather moss, bunchberry	White-throated Sparrow				1			
17-Jun-11	374	845	855	100	9	0	N	1	mature forest	balsam fir, black spruce, white birch	55	white birch, balsam fir, sheep laurel	stairstep moss, feather moss, bunchberry	Northern Goshawk			1		2		
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	Yellow-bellied Flycatcher	1			1			
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	Least Flycatcher	1			1			
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	Swainson's Thrush	1			1			
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	Yellow-rumped Warbler				1			
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	Black-throated Green Warbler	1	1		1	1		
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	Northern Waterthrush			1				
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	Fox Sparrow							1
18-Jun-11	375	520	530	100	8	0	0	0	mature forest	white birch, balsam fir, black spruce	85	balsam fir	ferns, red raspberry	White-throated Sparrow				1		1	
18-Jun-11	376	537	547	100	8	0	0	0	mature forest	balsam fir, white birch, black spruce	85	balsam fir	red raspberry, bunchberry, star flower	Ruby-crowned Kinglet	1					1	
18-Jun-11	376	537	547	100	8	0	0	0	mature forest	balsam fir, white birch, black spruce	85	balsam fir	red raspberry, bunchberry, star flower	Swainson's Thrush			1	1		1	
18-Jun-11	376	537	547	100	8	0	0	0	mature forest	balsam fir, white birch, black spruce	85	balsam fir	red raspberry, bunchberry, star flower	Magnolia Warbler	1						
18-Jun-11	376	537	547	100	8	0	0	0	mature forest	balsam fir, white birch, black spruce	85	balsam fir	red raspberry, bunchberry, star flower	Black-throated Green Warbler	1						



Table ECC-08.3 2011 Songbird Survey Results

Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes		
															<50m	50-100m	>100m	<50m	50-100m	>100m
18-Jun-11	376	537	547	100	8	0	0	0	mature forest	balsam fir, white birch, black spruce	85	balsam fir	red raspberry, bunchberry, star flower	Northern Waterthrush	1		1	1		
18-Jun-11	376	537	547	100	8	0	0	0	mature forest	balsam fir, white birch, black spruce	85	balsam fir	red raspberry, bunchberry, star flower	Fox Sparrow	1					1
18-Jun-11	376	537	547	100	8	0	0	0	mature forest	balsam fir, white birch, black spruce	85	balsam fir	red raspberry, bunchberry, star flower	White-throated Sparrow	1					
18-Jun-11	377	554	604	100	8	0	0	0	mature forest	balsam fir white birch	80	balsam fir	ferns, bunchberry, moss	Yellow-bellied Flycatcher		1			1	
18-Jun-11	377	554	604	100	8	0	0	0	mature forest	balsam fir white birch	80	balsam fir	ferns, bunchberry, moss	Swainson's Thrush			1			1
18-Jun-11	377	554	604	100	8	0	0	0	mature forest	balsam fir white birch	80	balsam fir	ferns, bunchberry, moss	American Robin					1	
18-Jun-11	377	554	604	100	8	0	0	0	mature forest	balsam fir white birch	80	balsam fir	ferns, bunchberry, moss	Yellow-rumped Warbler					1	
18-Jun-11	377	554	604	100	8	0	0	0	mature forest	balsam fir white birch	80	balsam fir	ferns, bunchberry, moss	Northern Waterthrush	1	1	1	1	1	
18-Jun-11	378	613	623	100	8	0	0	0	mature forest	balsam fir, black spruce, white birch	70	balsam fir, black spruce	feather moss, bunchberry, ferns	Golden-crowned Kinglet					1	
18-Jun-11	378	613	623	100	8	0	0	0	mature forest	balsam fir, black spruce, white birch	70	balsam fir, black spruce	feather moss, bunchberry, ferns	American Robin						1
18-Jun-11	378	613	623	100	8	0	0	0	mature forest	balsam fir, black spruce, white birch	70	balsam fir, black spruce	feather moss, bunchberry, ferns	White-throated Sparrow			1			
18-Jun-11	379	635	645	100	8	fog		0	regen forest approx 5-6 m tall	balsam fir, black spruce	50	balsam fir	feather moss, bunchberry	Ruby-crowned Kinglet	1				1	
18-Jun-11	379	635	645	100	8	fog		0	regen forest approx 5-6 m tall	balsam fir, black spruce	50	balsam fir	feather moss, bunchberry	Swamp Sparrow					1	
18-Jun-11	379	635	645	100	8	fog		0	regen forest approx 5-6 m tall	balsam fir, black spruce	50	balsam fir	feather moss, bunchberry	Common Yellowthroat	1			1		
18-Jun-11	380	657	707	100	8	fog	NE	1	barren/bog hilltop		0	larch black spruce, leatherleaf, sheep laurel	sphagnum moss	Common Loon						1
18-Jun-11	380	657	707	100	8	fog	NE	1	barren/bog hilltop		0	larch black spruce, leatherleaf, sheep laurel	sphagnum moss	Yellow-bellied Flycatcher		1				
18-Jun-11	380	657	707	100	8	fog	NE	1	barren/bog hilltop		0	larch black spruce, leatherleaf, sheep laurel	sphagnum moss	Pine Warbler		1			1	
18-Jun-11	380	657	707	100	8	fog	NE	1	barren/bog hilltop		0	larch black spruce, leatherleaf, sheep laurel	sphagnum moss	Savannah Sparrow	1			1		
18-Jun-11	380	657	707	100	8	fog	NE	1	barren/bog hilltop		0	larch black spruce, leatherleaf, sheep laurel	sphagnum moss	Lincoln's Sparrow	1			1		
18-Jun-11	380	657	707	100	8	fog	NE	1	barren/bog hilltop		0	larch black spruce, leatherleaf, sheep laurel	sphagnum moss	White-throated Sparrow		2			2	
18-Jun-11	380	657	707	100	8	fog	NE	1	barren/bog hilltop		0	larch black spruce, leatherleaf, sheep laurel	sphagnum moss	Common Yellowthroat	1			1		
18-Jun-11	381	714	724	100	8	fog	NE	1	barren/bog hilltop		0	black spruce, balsam fir, larch, sheep laurel, leatherleaf, rhodora, Labrador tea	sphagnum moss, bakeapple	Ruby-crowned Kinglet			1			1
18-Jun-11	381	714	724	100	8	fog	NE	1	barren/bog hilltop		0	black spruce, balsam fir, larch, sheep laurel, leatherleaf, rhodora, Labrador tea	sphagnum moss, bakeapple	Hermit Thrush						1
18-Jun-11	381	714	724	100	8	fog	NE	1	barren/bog hilltop		0	black spruce, balsam fir, larch, sheep laurel, leatherleaf, rhodora, Labrador tea	sphagnum moss, bakeapple	Pine Warbler	1					
18-Jun-11	381	714	724	100	8	fog	NE	1	barren/bog hilltop		0	black spruce, balsam fir, larch, sheep laurel, leatherleaf, rhodora, Labrador tea	sphagnum moss, bakeapple	Lincoln's Sparrow		1				1
18-Jun-11	381	714	724	100	8	fog	NE	1	barren/bog hilltop		0	black spruce, balsam fir, larch, sheep laurel, leatherleaf, rhodora, Labrador tea	sphagnum moss, bakeapple	White-throated Sparrow			1		1	
18-Jun-11	381	714	724	100	8	fog	NE	1	barren/bog hilltop		0	black spruce, balsam fir, larch, sheep laurel, leatherleaf, rhodora, Labrador tea	sphagnum moss, bakeapple	Common Yellowthroat	1			1		
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	Greater Yellowlegs			1			1
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	Hermit Thrush			2			1
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	Pine Warbler		1			1	
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	Blackpoll Warbler					1	
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	Northern Waterthrush			1			1
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	Fox Sparrow		1			1	
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	White-throated Sparrow			1			2
18-Jun-11	382	731	741	100	8	fog	NE	1	barren/bog hilltop		0	larch, black spruce, birch, Labrador tea	grasses, sedges, sphagnum moss	Common Yellowthroat		2			1	
18-Jun-11	383	748	758	100	8	fog	NE	2	barren/bog hilltop		0	larch, leatherleaf, sheep laurel	sphagnum moss, lichen, grasses, sedges, bog pools	Greater Yellowlegs	2			2		
18-Jun-11	383	748	758	100	8	fog	NE	2	barren/bog hilltop		0	larch, leatherleaf, sheep laurel	sphagnum moss, lichen, grasses, sedges, bog pools	Boreal Chickadee				1		
18-Jun-11	383	748	758	100	8	fog	NE	2	barren/bog hilltop		0	larch, leatherleaf, sheep laurel	sphagnum moss, lichen, grasses, sedges, bog pools	Hermit Thrush	1					



Table ECC-08.3 2011 Songbird Survey Results

Date	Waypoint ID	Start Time	End Time	% Cloud Cover	Temp (°C)	Precipitation	Wind direction	Wind speed (Beaufort scale)	Habitat	Forest Cover	% Cover	Shrub layer	Ground veg	Species	first 5 minutes			second 5 minutes		
															<50m	50-100m	>100m	<50m	50-100m	>100m
18-Jun-11	383	748	758	100	8	fog	NE	2	barren/bog hilltop	0	0	larch, leatherleaf, sheep laurel	sphagnum moss, lichen, grasses, sedges, bog pools	Pine Warbler	1			1		
18-Jun-11	383	748	758	100	8	fog	NE	2	barren/bog hilltop	0	0	larch, leatherleaf, sheep laurel	sphagnum moss, lichen, grasses, sedges, bog pools	Blackpoll Warbler				1		
18-Jun-11	383	748	758	100	8	fog	NE	2	barren/bog hilltop	0	0	larch, leatherleaf, sheep laurel	sphagnum moss, lichen, grasses, sedges, bog pools	White-throated Sparrow					1	
18-Jun-11	383	748	758	100	8	fog	NE	2	barren/bog hilltop	0	0	larch, leatherleaf, sheep laurel	sphagnum moss, lichen, grasses, sedges, bog pools	Common Yellowthroat		1			2	
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Ruby-crowned Kinglet		1				
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Hermit Thrush			2		1	
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Yellow-rumped Warbler		1			1	
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Pine Warbler		1				
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Blackpoll Warbler	2				2	
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Northern Waterthrush			1			
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Fox Sparrow			1			
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	White-throated Sparrow	2			1	2	
18-Jun-11	384	805	815	100	8	fog	NE	2	barren/scrub hilltop	0	0	black spruce, blueberry	sphagnum moss, lichen	Common Yellowthroat		1			2	
18-Jun-11	385	821	831	100	8	0	0	0	balsam fir regen, wB	balsam fir	65	balsam fir	feather moss, bunchberry, ferns	Yellow-bellied Flycatcher		1				
18-Jun-11	385	821	831	100	8	0	0	0	balsam fir regen, wB	balsam fir	65	balsam fir	feather moss, bunchberry, ferns	Ruby-crowned Kinglet						1
18-Jun-11	385	821	831	100	8	0	0	0	balsam fir regen, wB	balsam fir	65	balsam fir	feather moss, bunchberry, ferns	Swainson's Thrush			1			1
18-Jun-11	385	821	831	100	8	0	0	0	balsam fir regen, wB	balsam fir	65	balsam fir	feather moss, bunchberry, ferns	Dark-eyed Junco					1	
18-Jun-11	386	848	858	100	8	0	0	0	balsam fir regen	balsam fir	65	balsam fir, black spruce	stairstep moss, feather moss	Boreal Chickadee	1			2		
18-Jun-11	386	848	858	100	8	0	0	0	balsam fir regen	balsam fir	65	balsam fir, black spruce	stairstep moss, feather moss	Swainson's Thrush		1			1	
18-Jun-11	386	848	858	100	8	0	0	0	balsam fir regen	balsam fir	65	balsam fir, black spruce	stairstep moss, feather moss	White-throated Sparrow			1			1

Table ECCC-08.4 2011 Spring Breeding Waterfowl Results

Date: 10-May-11

Weather: 0°C, clear, no precipitation, wind = 10 knots NE

Snow Coverage (% throughout block): 1%

Ice Coverage (% throughout bock): <1%

Waypoint ID	Species	Groupings
2	Ring-necked Duck	Single
7	Canada Goose	Single
10	American Black Duck	Pair
12	American Black Duck	Pair
14	Red-breasted Merganser	Single
15	Common Loon	Single
16	Common Loon	Single
17	Common Loon	Single
18	Common Loon	Pair
19	Canada Geese	Four
20	Common Loon	Pair
22	Common Loon	Single
25	Canada Goose	Pair - on nest
27	Canada Goose	Pair - on nest
30	American Black Duck	Pair
32	Ring-necked Duck	Pair plus 3 males
33	Canada Goose	Pair
34	Common Goldeneye	Single
35	Canada Goose	Single
36	Common Merganser	Male
38	Common Merganser	Male
39	Ring-necked Duck	Pair
40	Canada Goose	Pair
41	Common Loon	Pair
42	Common Merganser	Pair
44	Ring-necked Duck	Two males
47	Common Loon	Three
48	Common Loon	Two
50	Common Merganser	Pair
51	Canada Goose	Pair
52	Common Loon	Single
53	American Black Duck	Single
54	Common Goldeneye	Single
56	American Black Duck	Pair



Table ECCC-08.5 2011 Brood Survey Results

Date: 7-Jul-11
Survey Time: 3 hours and 10 minutes
Weather: 100% cloud cover, 20°C, SW winds at 30 km/hr

Waypoint ID	Species	Observation
516	American Black Duck	1 Individual
517	American Black Duck	25 Individuals
530	American Black Duck	3 Young + Female
537	American Black Duck	4 Young + Female
543	American Black Duck	3 Young + Female
544	American Black Duck	4 Young + Female
544	American Black Duck	9 Young + Female
545	American Black Duck	2 Young + Female
549	American Black Duck	8 Young + Female
549	American Black Duck	1 Individual
553	American Black Duck	1 Individual
554	American Black Duck	1 duckling
560	American Black Duck	1 Individual
562	American Black Duck	1 Individual
563	American Black Duck	1 Individual
568	American Black Duck	1 Individual
568	American Black Duck	4 Individual
571	American Black Duck	1 Individual
577	American Black Duck	4 Individual
577	American Black Duck	1 Individual
587	American Black Duck	1 Individual
591	American Black Duck	8 Young + Female
605	American Black Duck	1 Individual
611	American Black Duck	5 Young + Female
508	Canada Goose	7 Individuals
546	Canada Goose	3 Individuals
604	Common Goldeneye	1 Individual
615	Common Loon	1 Individual
515	Common Loon	1 Individual
531	Common Loon	1 Indicated Pair
534	Common Loon	1 Individual
567	Common Loon	1 Individual
578	Common Loon	1 Individual
593	Common Loon	1 Individual
595	Common Loon	2 Individuals
596	Common Loon	1 Individual
601	Common Loon	1 Indicated Pair
607	Common Loon	1 Individual
589	Common Merganser	2 Individuals
497	Green-winged Teal	1 Individual
505	gull sp.	2 Individuals
617	gull sp.	1 Individual
511	Herring Gull	1 Individual



Table ECCC-08.5 2011 Brood Survey Results

Date: 7-Jul-11
Survey Time: 3 hours and 10 minutes
Weather: 100% cloud cover, 20°C, SW winds at 30 km/hr

Waypoint ID	Species	Observation
514	Herring Gull	2 Individuals
606	Herring Gull	1 Individual
503	merganser sp.	1 Individual
504	merganser sp.	10 Young + Female
513	merganser sp.	1 Individual
533	merganser sp.	2 Individuals
513	merganser	5 Young + Female
516	Ring-necked Duck	1 Indicated Pair
517	Ring-necked Duck	8 Young + Female
522	Ring-necked Duck	7 Young + Female
523	Ring-necked Duck	1 Indicated Pair
523	Ring-necked Duck	1 Individual
524	Ring-necked Duck	1 Indicated Pair
526	Ring-necked Duck	1 Indicated Pair
541	Ring-necked Duck	1 Indicated Pair
547	Ring-necked Duck	2 Indicated Pairs
549	Ring-necked Duck	2 Indicated Pairs
556	Ring-necked Duck	1 Indicated Pair
556	Ring-necked Duck	3 Individuals
558	Ring-necked Duck	3 Individuals
559	Ring-necked Duck	2 Indicated Pairs
570	Ring-necked Duck	2 Indicated Pairs
572	Ring-necked Duck	6 Young + Female
573	Ring-necked Duck	6 Individuals
580	Ring-necked Duck	8 Young + Female
581	Ring-necked Duck	13 Individuals
587	Ring-necked Duck	1 Individual
594	Ring-necked Duck	1 Indicated Pair
603	Ring-necked Duck	1 Individual
604	Ring-necked Duck	2 Individuals
605	Ring-necked Duck	1 Indicated Pair
608	Ring-necked Duck	1 Indicated Pair
611	Ring-necked Duck	1 Individual
612	Ring-necked Duck	1 Individual
614	Ring-necked Duck	1 Indicated Pair
614	Ring-necked Duck	1 Individual
614	Ring-necked Duck	8 Young + Female
551	unidentified duckling	1 Individual
555	unidentified ducks in flight	20 Individuals
584	unidentified ducks in flight	no data



Table ECCC-08.6 2017 Spring Breeding Waterfowl Survey Results

Date: 6-Jun-17

Transect	Waypoint ID	Species Name	Number	Temperature (°C)	Wind Speed (km/h)	Wind Direction	Cloud Cover (%)	Snow Cover (%)	Ice Cover (%)
T1	-	-	-	14	10	N	50	0	0
T2	-	-	-	14	10	N	0	0	0
T3	-	-	-	14	10	N	0	0	0
T4	-	-	-	14	10	N	0	0	0
T5	1086	Common loon	1	14	10	N	0	0	0
T6	1090	Unidentified	1	14	10	N	0	0	0
T7	1092	Common Goldeneye	5	14	10	N	0	0	0
T7	1094	Common loon	1	14	10	N	0	0	0
T7	1093	Ring-necked Duck	1	14	10	N	0	0	0
T8	1098	American Black Duck	3	14	10	N	20	0	0
T8	1098	Greater Yellowlegs	2	14	10	N	20	0	0
T8	1098	Ring-necked Duck	2	14	10	N	20	0	0
T8	1097	Unidentified	1	14	10	N	20	0	0
T9	1101	Common Loon	1	14	10	N	0	0	0
T9	1102	Common Loon	2	14	10	N	0	0	0
T9	1103	Ring-necked Duck	2	14	10	N	0	0	0
T9	1102	Spotted Sandpiper	2	14	10	N	0	0	0
T10	1109	American Black Duck	3	14	10	N	0	0	0
T10	1110	Common Goldeneye	1	14	10	N	0	0	0
T10	1106	Green-winged Teal	1	14	10	N	0	0	0
T11	1113	Ring-necked Duck	1	14	10	N	0	0	0
T11	1112	Spotted Sandpiper	1	14	10	N	0	0	0
T12	1115	American Black Duck	1	14	10	N	0	0	0
T12	1115	Common Goldeneye	4	14	10	N	0	0	0
T12	1114	Common Loon	1	14	10	N	0	0	0
T12	1116	Ring-necked Duck	4	14	10	N	0	0	0
T13	1117	Common Loon	1	14	10	N	0	0	0
T14	1119	Common Loon	1	14	10	N	0	0	0
T14	1118	Spotted Sandpiper	2	14	10	N	0	0	0
T15	1123	American Black Duck	1	10	10	NW	50	0	0
T15	1130	American Black Duck	11	10	10	NW	50	0	0
T15	1121	Common Goldeneye	2	10	10	NW	50	0	0
T15	1124	Common Goldeneye	1	10	10	NW	50	0	0
T15	1129	Common Goldeneye	2	10	10	NW	50	0	0
T15	1128	Common Loon	1	10	10	NW	50	0	0
T15	1122	Ring-necked Duck	2	10	10	NW	50	0	0
T15	1126	Ring-necked Duck	2	10	10	NW	50	0	0
T15	1127	Ring-necked Duck	2	10	10	NW	50	0	0
T15	1131	Ring-necked Duck	3	10	10	NW	50	0	0
T15	1120	Spotted Sandpiper	1	10	10	NW	50	0	0
T15	1124	Spotted Sandpiper	2	10	10	NW	50	0	0
T15	1125	Spotted Sandpiper	1	10	10	NW	50	0	0



Table ECC-08.7 2017 Fall Staging Waterfowl Survey Results

Date: 27-Sept-2017

Transect	Waypoint	Species	Number	Comments	Snow Cover (%)	Ice Cover (%)	Visibility	Precipitation	Temperature (°C)	Wind (Speed km/h and direction)	Cloud Cover (%)	Habitat Description
T7	898	American Black Duck	4		0	0	Excellent	None	4	10 W	95	mixedwood, riparian, bog
T9	899	Ring-necked Duck	1		0	0	Excellent	None	4	10 W	95	mixedwood, riparian, bog
T10	900	Common Loon	1		0	0	Excellent	None	4	10 W	95	lakes, bog, mixedwood, riparian
T10	903	Green-winged Teal	3		0	0	Excellent	None	4	10 W	95	lakes, bog, mixedwood, riparian
T13	905	Common Goldeneye	4		0	0	Excellent	None	4	10 W	95	lakes, mixedwood, bog
T14	906	Common Loon	2	Male and Female	0	0	Excellent	None	4	10 W	95	lakes, bog
T15	884	American Black Duck	1		0	0	Excellent	None	4	10 W	95	riparian
T15	885	American Black Duck	3		0	0	Excellent	None	4	10 W	95	riparian
T15	886	Green-winged Teal	11		0	0	Excellent	None	4	10 W	95	riparian
T15	887	Mallard	2	Male and Female	0	0	Excellent	None	4	10 W	95	riparian
T15	888	Ring-necked Duck	1		0	0	Excellent	None	4	10 W	95	riparian
T15	889	Bald Eagle	1		0	0	Excellent	None	4	10 W	95	riparian
T15	890	Northern Harrier	1		0	0	Excellent	None	4	10 W	95	riparian
-	907	Ring-necked Duck	1		-	-	-	-	-	-	-	-

