



Atlantic Canada Conservation Data Centre
Centre de données sur la conservation du Canada Atlantique

Vascular plants of the Upper Kemptown COMFIT site, Colchester County, Nova Scotia, with notes on plant communities and birds



Ground-Fir Clubmoss (*Lycopodium sabinifolium*, S3? – Sensitive), at Upper Kemptown COMFIT site.

September 20, 2014

Conducted by Sean Blaney,
Atlantic Canada Conservation Data Centre
for Affinity Wind LP

Methods

AC CDC botanist Sean Blaney (herein “I”) conducted two hours of fieldwork on foot at the Upper Kemptown Community Feed-in Tariff (COMFIT) project site in Colchester County, Nova Scotia on June 20, 2014, walking 3.56 km. GPS tracks of site coverage are mapped in Figure 1. Site planning was in an early stage, with turbine sites and road locations not yet finalized, so Reuben Burge and Lisa Fulton of Affinity Wind LP accompanied Sean Blaney to direct field survey toward the areas most suited to final turbine and road construction.

I documented full lists of vascular plant and bird species observed while on site with locations documented for the first observation of each species. For provincially rare species (those ranked S3S4 or lower by AC CDC, see Appendix 1), I recorded location by GPS and noted abundance, extent of occurrence and habitat. Breeding evidence for birds was recorded using the categories of the Maritimes Breeding Bird Atlas. In addition, I documented plant communities present within the turbine construction footprints, recording dominant species in the canopy, sapling, low shrub/tree seedling and herbaceous strata, as well as approximating total percentage cover for each strata and individual species’ percentage cover for tree species.

Results and Discussion

I. Vascular Plant Species

I recorded 82 vascular plant taxa (71 native, 11 exotic; Table 1), one of which is of some conservation significance (Figure 1, mapped in Figure 2). Ground-Fir Clubmoss (*Lycopodium sabinifolium*, S3? – Secure; see Appendix 1 for definitions) occurred in small numbers at one site (45.4905N, 63.12712W) on an anthropogenic open gravelly bank along a forest margin, within an area potentially subject to turbine construction impacts through road widening and upgrading. This species is of northern affinity, most frequently occurring in exposed areas along the coast or at higher elevations, and it is known from about 15 different locations in Nova Scotia. The species is uncommon throughout the Maritimes (S3 – Secure in New Brunswick, S1S2 – May Be At Risk in Prince Edward Island).

Further visits to the site, especially with greater focus on the heavily disturbed roadside locations which were not sampled thoroughly, would yield additional species to those recorded. However, based on the nature and condition of the plant communities present, it is unlikely that many additional provincially rare plant species would be found in the project footprint.

II. Breeding Birds

I recorded 15 species of breeding birds (Table 2) through incidental observations during plant fieldwork. The mid-morning fieldwork meant that bird activity was reduced relative to its maximum around daybreak and thus only a small proportion of the species actually breeding on the site were documented.

Three bird species of conservation significance were noted: Bay-breasted Warbler (S3S4 – Sensitive), Golden-crowned Kinglet (S4 – Sensitive), and Ruby-crowned Kinglet (S4 – Sensitive). All were singing males noted in young Black Spruce plantation within what had once been Sugar Maple-dominated forest. The Bay-breasted Warbler and Golden-crowned Kinglet were within the construction footprint for Turbine 1, and the Ruby-crowned Kinglet was just outside the likely construction footprint in forest near a road. All these species, especially the two species of kinglets, are still fairly common to common in Nova Scotia but are of concern because of major population declines. None have legal conservation status.

III. Plant Communities

Notes on plant communities at the proposed turbine construction sites are given in Table 3 and photographs of the proposed turbine sites are given in Figures 3 to 5. None of the plant communities documented within the turbine or road construction footprints are considered provincially rare (AC CDC data, S. Blaney, pers. obs.). The proposed project footprint falls within three major habitat groups: 1) disturbed, gravelly, open and semi-open upland, including existing gravelly roadways, the roadside – forest transition zone, and open gravel pit; 2) young to intermediate-aged (40 to 60 years, with thinly scattered larger trees) deciduous forest dominated by Sugar Maple (the area around and between turbines 2 and 3); and 3) approximately 15 year old thinly planted Black Spruce plantation within former Sugar Maple-dominated forest, where Balsam Fir, Sugar Maple and Yellow Birch regeneration is dense in areas not planted with Black Spruce (the area around turbine 1 and between that turbine and the existing road).

Table 1. Vascular plants recorded in the Kemptown COMFIT project footprint, with Nova Scotia S-ranks and General Status (GS) ranks (defined in Appendix 1). Taxonomy follows Kartesz (1999) – *Synthesis of the North American Flora*, CD-ROM.

| Species / Family | Common Name | S-rank | GS Rank |
|-------------------------------------------------|--------------------------------|---------------|----------------|
| Lycopodiaceae | Clubmoss Family | | |
| <i>Lycopodium annotinum</i> | Stiff Clubmoss | S5 | 4 Secure |
| <i>Lycopodium digitatum</i> | Southern Clubmoss | S5 | 4 Secure |
| <i>Lycopodium hickeyi</i> | Hickey's Tree-clubmoss | S4? | 4 Secure |
| <i>Lycopodium obscurum</i> | Flat-branched Tree-clubmoss | S4S5 | 4 Secure |
| <i>Lycopodium sabinifolium</i> | Ground-Fir | S3? | 4 Secure |
| Dennstaedtiaceae | Hay-Scented Fern Family | | |
| <i>Dennstaedtia punctilobula</i> | Eastern Hay-Scented Fern | S5 | 4 Secure |
| Thelypteridaceae | Marsh Fern Family | | |
| <i>Thelypteris noveboracensis</i> | New York Fern | S5 | 4 Secure |
| Dryopteridaceae | Wood Fern Family | | |
| <i>Dryopteris campyloptera</i> | Mountain Wood Fern | S5 | 4 Secure |
| <i>Dryopteris intermedia</i> | Evergreen Wood Fern | S5 | 4 Secure |
| Pinaceae | Pine Family | | |
| <i>Abies balsamea</i> | Balsam Fir | S5 | 4 Secure |
| <i>Picea mariana</i> | Black Spruce | S5 | 4 Secure |
| <i>Picea rubens</i> | Red Spruce | S5 | 4 Secure |
| Fagaceae | Beech Family | | |
| <i>Fagus grandifolia</i> | American Beech | S5 | 4 Secure |
| Betulaceae | Birch Family | | |
| <i>Betula alleghaniensis</i> | Yellow Birch | S5 | 4 Secure |
| <i>Betula papyrifera</i> var. <i>papyrifera</i> | Heart-leaved Birch | S5 | 4 Secure |
| Polygonaceae | Smartweed Family | | |
| <i>Polygonum cilinode</i> | Fringed Black Bindweed | S5 | 4 Secure |
| Clusiaceae | St. John's-wort Family | | |
| <i>Hypericum perforatum</i> | Common St. John's-wort | SNA | 7 Exotic |
| Violaceae | Violet Family | | |
| <i>Viola blanda</i> var. <i>palustriformis</i> | Sweet White Violet | S5 | 4 Secure |
| <i>Viola sororia</i> | Woolly Blue Violet | S5 | 4 Secure |
| Salicaceae | Willow Family | | |
| <i>Populus tremuloides</i> | Trembling Aspen | S5 | 4 Secure |
| <i>Salix bebbiana</i> | Bebb's Willow | S5 | 4 Secure |
| <i>Salix humilis</i> | Upland Willow | S5 | 4 Secure |
| Ericaceae | Heath Family | | |
| <i>Vaccinium angustifolium</i> | Late Lowbush Blueberry | S5 | 4 Secure |
| <i>Vaccinium myrtilloides</i> | Velvet-leaved Blueberry | S5 | 4 Secure |
| Monotropaceae | Indian Pipe Family | | |

| Species / Family | Common Name | S-rank | GS Rank |
|------------------------------------------|--------------------------------|---------------|----------------|
| <i>Monotropa uniflora</i> | Indian Pipe | S5 | 4 Secure |
| Primulaceae | Primrose Family | | |
| <i>Trientalis borealis</i> | Northern Starflower | S5 | 4 Secure |
| Rosaceae | Rose Family | | |
| <i>Amelanchier sp.</i> | serviceberry species | [native] | [native] |
| <i>Fragaria virginiana</i> | Wild Strawberry | S5 | 4 Secure |
| <i>Potentilla simplex</i> | Old Field Cinquefoil | S5 | 4 Secure |
| <i>Rubus canadensis</i> | Smooth Blackberry | S5 | 4 Secure |
| <i>Rubus idaeus ssp. strigosus</i> | Red Raspberry | S5 | 4 Secure |
| <i>Rubus vermontanus</i> | Vermont Blackberry | SNR | 5 Undetermined |
| Fabaceae | Bean Family | | |
| <i>Trifolium repens</i> | White Clover | SNA | 7 Exotic |
| Onagraceae | Evening-Primrose Family | | |
| <i>Chamerion angustifolium</i> | Fireweed | S5 | 4 Secure |
| Aquifoliaceae | Holly Family | | |
| <i>Nemopanthus mucronatus</i> | Mountain Holly | S5 | 4 Secure |
| Aceraceae | Maple Family | | |
| <i>Acer saccharum</i> | Sugar Maple | S5 | 4 Secure |
| <i>Acer spicatum</i> | Mountain Maple | S5 | 4 Secure |
| Araliaceae | Sarsaparilla Family | | |
| <i>Aralia nudicaulis</i> | Wild Sarsaparilla | S5 | 4 Secure |
| Lamiaceae | Mint Family | | |
| <i>Galeopsis tetrahit</i> | Common Hemp-nettle | SNA | 7 Exotic |
| Plantaginaceae | Plantain Family | | |
| <i>Plantago major</i> | Common Plantain | SNA | 7 Exotic |
| Scrophulariaceae | Figwort Family | | |
| <i>Veronica officinalis</i> | Common Speedwell | S5 | 7 Exotic |
| Orobanchaceae | Broomrape Family | | |
| <i>Epifagus virginiana</i> | Beechdrops | S4 | 4 Secure |
| Rubiaceae | Bedstraw Family | | |
| <i>Houstonia caerulea</i> | Azure Bluet | S5 | 4 Secure |
| Caprifoliaceae | Honeysuckle Family | | |
| <i>Lonicera canadensis</i> | Canada Fly Honeysuckle | S5 | 4 Secure |
| <i>Sambucus racemosa</i> | Red Elderberry | S5 | 4 Secure |
| Asteraceae | Aster Family | | |
| <i>Anaphalis margaritacea</i> | Pearly Everlasting | S5 | 4 Secure |
| <i>Doellingeria umbellata</i> | Hairy Flat-top White Aster | S5 | 4 Secure |
| <i>Euthamia graminifolia</i> | Grass-leaved Goldenrod | S5 | 4 Secure |
| <i>Hieracium caespitosum/aurantiacum</i> | Orange or Field Hawkweed | [SNA] | [7 Exotic] |
| <i>Hieracium lachenalii/umbellatum</i> | Common or Umbellate Hawkweed | [SNA] | [7 Exotic] |

| Species / Family | Common Name | S-rank | GS Rank |
|----------------------------------------------|------------------------------|---------------|----------------|
| <i>Hieracium pilosella</i> | Mouse-ear Hawkweed | SNA | 7 Exotic |
| <i>Lactuca canadensis</i> | Canada Lettuce | S5 | 4 Secure |
| <i>Oclemea acuminata</i> | Whorled Wood Aster | S5 | 4 Secure |
| <i>Prenanthes trifoliolata</i> | Three-leaved Rattlesnakeroot | S5 | 4 Secure |
| <i>Solidago canadensis</i> | Canada Goldenrod | S5 | 4 Secure |
| <i>Solidago puberula</i> | Downy Goldenrod | S5 | 4 Secure |
| <i>Solidago rugosa</i> | Rough-stemmed Goldenrod | S5 | 4 Secure |
| <i>Symphotrichum lateriflorum</i> | Calico Aster | S5 | 4 Secure |
| <i>Taraxacum officinale</i> | Common Dandelion | SNA | 7 Exotic |
| Juncaceae | Rush Family | | |
| <i>Juncus tenuis</i> | Slender Rush | S5 | 4 Secure |
| <i>Luzula multiflora</i> | Common Woodrush | S5 | 4 Secure |
| Cyperaceae | Sedge Family | | |
| <i>Carex brunnescens ssp. sphaerostachya</i> | Brownish Sedge | S5 | 4 Secure |
| <i>Carex communis</i> | Fibrous-Root Sedge | S5 | 4 Secure |
| <i>Carex debilis var. rudgei</i> | White-edged Sedge | S5 | 4 Secure |
| <i>Carex intumescens</i> | Bladder Sedge | S5 | 4 Secure |
| <i>Carex novae-angliae</i> | New England Sedge | S5 | 4 Secure |
| <i>Carex scoparia</i> | Broom Sedge | S5 | 4 Secure |
| <i>Scirpus atrocinctus</i> | Black-girdled Bulrush | S5 | 4 Secure |
| <i>Scirpus hattorianus</i> | Mosquito Bulrush | S5 | 4 Secure |
| Poaceae | Grass Family | | |
| <i>Agrostis capillaris</i> | Colonial Bent Grass | SNA | 7 Exotic |
| <i>Anthoxanthum odoratum</i> | Large Sweet Vernal Grass | SNA | 7 Exotic |
| <i>Brachyelytrum septentrionale</i> | Northern Shorthusk | S5 | 4 Secure |
| <i>Cinna latifolia</i> | Drooping Wood Reed Grass | S5 | 4 Secure |
| <i>Danthonia compressa</i> | Flattened Oat Grass | S5 | 4 Secure |
| <i>Danthonia spicata</i> | Poverty Oat Grass | S5 | 4 Secure |
| <i>Dichanthelium acuminatum</i> | Woolly Panic Grass | S5 | 4 Secure |
| <i>Dichanthelium boreale</i> | Northern Panic Grass | S5 | 4 Secure |
| <i>Poa pratensis</i> | Kentucky Blue Grass | S5 | 4 Secure |
| <i>Poa saltuensis</i> | Weak Blue Grass | S5 | 4 Secure |
| Liliaceae | Lily Family | | |
| <i>Erythronium americanum</i> | Yellow Trout Lily | S4S5 | 4 Secure |
| <i>Maianthemum canadense</i> | Wild Lily-of-The-Valley | S5 | 4 Secure |
| <i>Trillium cernuum</i> | Nodding Trillium | S4 | 4 Secure |

Table 2. List of birds recorded incidentally by Sean Blaney on June 20, 2014 at the Upper Kemptown COMFIT site, with breeding evidence recorded following the methods of the Maritimes Breeding Bird Atlas. Breeding evidence with codes are: H = adult in suitable nesting habitat; S = singing male in suitable nesting habitat, NE = Nest with eggs, X = observed without evidence of breeding (heard overhead in this case).

| Species | Common Name | S-rank | GS Rank | Breeding Evidence |
|-----------------------------|------------------------------|---------------|----------------|--------------------------|
| <i>Dryocopus pileatus</i> | Pileated Woodpecker | S5 | 4 Secure | H |
| <i>Regulus satrapa</i> | Golden-crowned Kinglet | S4 | 3 Sensitive | S |
| <i>Regulus calendula</i> | Ruby-crowned Kinglet | S4B | 3 Sensitive | S |
| <i>Catharus ustulatus</i> | Swainson's Thrush | S4S5B | 4 Secure | S |
| <i>Catharus guttatus</i> | Hermit Thrush | S5B | 4 Secure | S |
| <i>Vireo olivaceus</i> | Red-eyed Vireo | S5B | 4 Secure | NE |
| <i>Dendroica magnolia</i> | Magnolia Warbler | S5B | 4 Secure | S |
| <i>Dendroica virens</i> | Black-throated Green Warbler | S4S5B | 4 Secure | S |
| <i>Dendroica castanea</i> | Bay-breasted Warbler | S3S4B | 3 Sensitive | S |
| <i>Setophaga ruticilla</i> | American Redstart | S5B | 4 Secure | S |
| <i>Seiurus aurocapilla</i> | Ovenbird | S5B | 4 Secure | S |
| <i>Geothlypis trichas</i> | Common Yellowthroat | S5B | 4 Secure | S |
| <i>Carpodacus purpureus</i> | Purple Finch | S4S5 | 4 Secure | S |
| <i>Loxia curvirostra</i> | Red Crossbill | S4? | 4 Secure | X |

Table 3. Locations, site community descriptions and dominant understory flora of proposed turbine locations at the Upper Kempton COMFIT site.

| Turbine # | Latitude | Longitude | Site Description | Dominant Understory Species |
|-----------|----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | 45.49462 | -63.12776 | Approximately 30 year old black spruce plantation within former sugar maple-dominated site. Tree cover 90%, composed of 40% black spruce (planted) - 30% sugar maple – 30% balsam fir – trace amounts of red maple & yellow birch. Shrub cover very limited | <i>Maianthemum canadense</i> ; <i>Dryopteris campyloptera</i> ; <i>Dryopteris intermedia</i> ; <i>Aralia nudicaulis</i> ; <i>Trientalis borealis</i> (patchy cover – between 0% and 50% in different areas) |
| 02 | 45.49526 | -63.11998 | Approximately 40 year old sugar maple – yellow birch – beech forest. Tree cover 85-90%. Shrub cover 10%, mostly Mountain Maple (<i>Acer spicatum</i>). | <i>Maianthemum canadense</i> , <i>Dryopteris intermedia</i> , <i>Carex brunnescens</i> ssp. <i>sphaerostachya</i> , <i>Poa saltuensis</i> , <i>Aralia nudicaulis</i> , <i>Oclemena acuminata</i> . 40% herb cover overall. |
| 03 | 45.49554 | -63.11373 | Approximately 40 year old mixed forest. 40% balsam fir, 30% yellow birch, 30% red maple, trace amounts of white spruce. Tree cover 80%. Shrub layer cover 10%, mostly balsam fir & yellow birch saplings. | <i>Dennstaedtia punctilobula</i> , <i>Dryopteris campyloptera</i> , <i>Dryopteris intermedia</i> , <i>Carex novae-angliae</i> , <i>Aralia nudicaulis</i> , <i>Trientalis borealis</i> . 70% herb cover overall. |

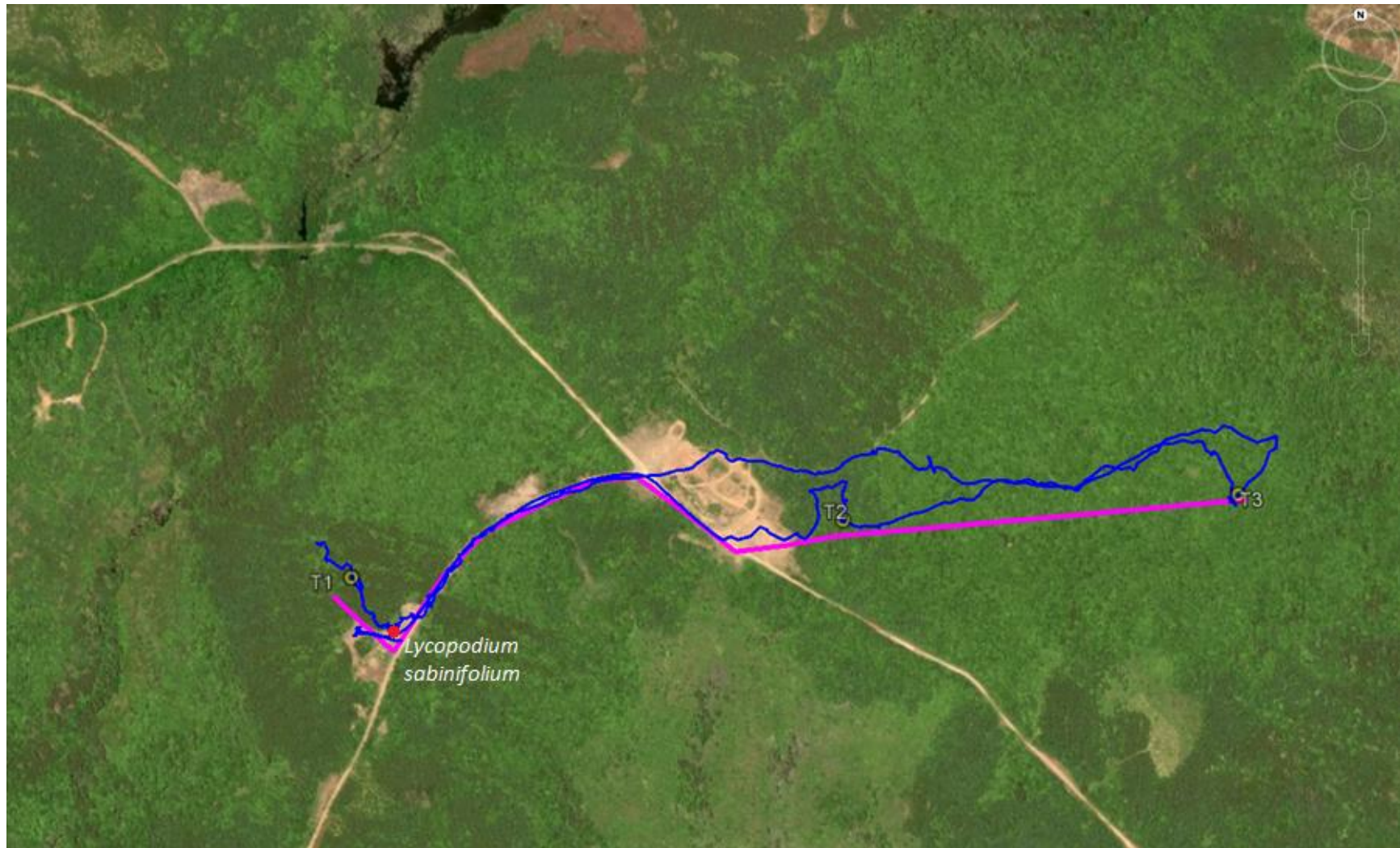


Figure 1. GPS tracks (blue line) of area covered by Sean Blaney on June 20, 2014 at the proposed Upper Kemptown COMFIT site, Colchester County, Nova Scotia. Sites T1, T2 and T3 are proposed turbine locations, as determined in the field by Reuben Burge, and the magenta lines represent potential road locations between turbine sites. Ground-Fir Clubmoss (*Lycopodium sabinifolium*, S3? - Sensitive) site is indicated by the red dot.



Figure 2. Ground-Fir Clubmoss (*Lycopodium sabinifolium*, S3? – Sensitive, above) and the open roadside habitat in which it occurred (left), at the Upper Kemptown COMFIT site.



Figure 3. Proposed turbine site T1, showing an unplanted naturally regenerating area within an otherwise generally dense, approximately 15 year old Black Spruce plantation in an area of formerly deciduous-dominated forest.



Figure 4. Two views of the young-intermediate aged mixed forest at proposed turbine site T2.



Figure 5. Two views of proposed turbine site T3, showing young-intermediate aged deciduous forest.

Appendix 1. Definitions of Atlantic Canada Conservation Data Centre (AC CDC) provincial ranks (S-ranks) and Nova Scotia Department of Natural Resources General Status Ranks. Both sets of ranks were developed through the consensus of the Nova Scotia Flora Ranking Committee, cooperatively led by Nova Scotia Department of Natural Resources and AC CDC. The ranks reflect the best understanding of plant status at the time of ranking, but are subject to revision as new information becomes available.

Definitions of provincial (subnational) ranks (S-ranks):

- S1 Extremely rare throughout its range in the province (typically 5 or fewer occurrences or very few remaining individuals). May be especially vulnerable to extirpation.
- S2 Rare throughout its range in the province (usually 6 to 20 occurrences or few remaining individuals). May be vulnerable to extirpation due to rarity or other factors.
- S3 Uncommon throughout its range in the province (usually 21 to 100 occurrences), or found only in a restricted range, even if abundant in at some locations.
- S4 Usually widespread, fairly common throughout its range in the province (usually 100+ occurrences), and apparently secure, but the element is of long-term concern.
- S5 Demonstrably widespread, abundant, and secure throughout its range in the province, and essentially ineradicable under present conditions (100+ occurrences).
- S#S# Numeric range rank: A range between two consecutive numeric ranks. Denotes range of uncertainty about the exact rarity of the Element (e.g., S1S2).
- SNA Conservation status not applicable: The taxon is exotic, its occurrence in the jurisdiction is not confirmed, or it is a hybrid without conservation value.
- ? Is used as a qualifier indicating uncertainty: for numeric ranks, denotes inexactness, e.g., SE? denotes uncertainty of exotic status. (The ? qualifies the character immediately preceding it in the SRANK).

Definitions of National General Status Ranks (from *Wild Species: the General Status Program in Canada*, Lisa Twolan and Simon Nadeau, 2004, Canadian Wildlife Service, Ottawa)

- *Extirpated*: species that have disappeared from (or are no longer present in) a given geographic area but which occur in other areas
- *Extinct*: species that are extirpated worldwide (i.e., they no longer exist anywhere)
- *At Risk*: species for which a formal detailed risk assessment (COSEWIC assessment or provincial or territorial equivalent) has been completed, and which have been determined to be at risk of extirpation or extinction (i.e., Endangered) or are likely to become at risk of extirpation or extinction if limiting factors are not reversed (i.e., Threatened)
- *May Be At Risk*: species that may be at risk of extirpation or extinction and are, therefore, candidates for a detailed risk assessment by COSEWIC or the provincial or territorial equivalent

- *Sensitive*: species that are believed to not be at risk of extirpation or extinction but which may require special attention or protection to prevent them from becoming at risk
- *Secure*: species that are believed to not belong in the categories At Risk, May Be At Risk, Extirpated, Extinct, Accidental, or Exotic. This category includes some species that show a declining trend in numbers in Canada but which remain relatively widespread or abundant.
- *Undetermined*: species for which insufficient data, information, or knowledge is available with which to reliably evaluate their general status
- *Not Assessed*: species that are known or believed to be present in the geographic area in Canada to which the general status rank applies but which have not yet been assessed
- *Exotic*: species that have been moved beyond their natural range as a result of human activity. In the *Wild Species 2005* report, exotic species have been purposefully excluded from all other categories.
- *Accidental*: species occurring infrequently and unpredictably outside their usual range

Bird Pre-construction Monitoring Plan

Mackenzie Settlement Road
Kemptown, Colchester County, Nova Scotia

By Ross Hall, Wildlife Biologist

Affinity Wind LP will seek Environmental Assessment approval for a three turbine COMFIT project on the Mackenzie Settlement Road near Kemptown, Colchester County, Nova Scotia. Following is a proposed plan for bird pre-construction monitoring. The purpose of the plan is to assess what birds use and move through the area and set a baseline for post- construction monitoring. Affinity Wind LP seeks comment or approval from Canadian Wildlife Biologists on this proposed plan prior to beginning.

The design of the bird monitoring plan follows the protocol of Environment Canada documents: (1) *Wind Turbines and Birds: A Guidance Document for Environmental Assessment* (April 2007) and (2) *Recommended Protocols for Monitoring Impacts on Birds* (April 2007). Also a review was made of bird monitoring designs used in Environmental Assessments at other wind turbine sites. (Aulds Mountain, Kaizer Meadow, Bateston, Elderhouse, and Martock).

Habitat and Count Point Locations

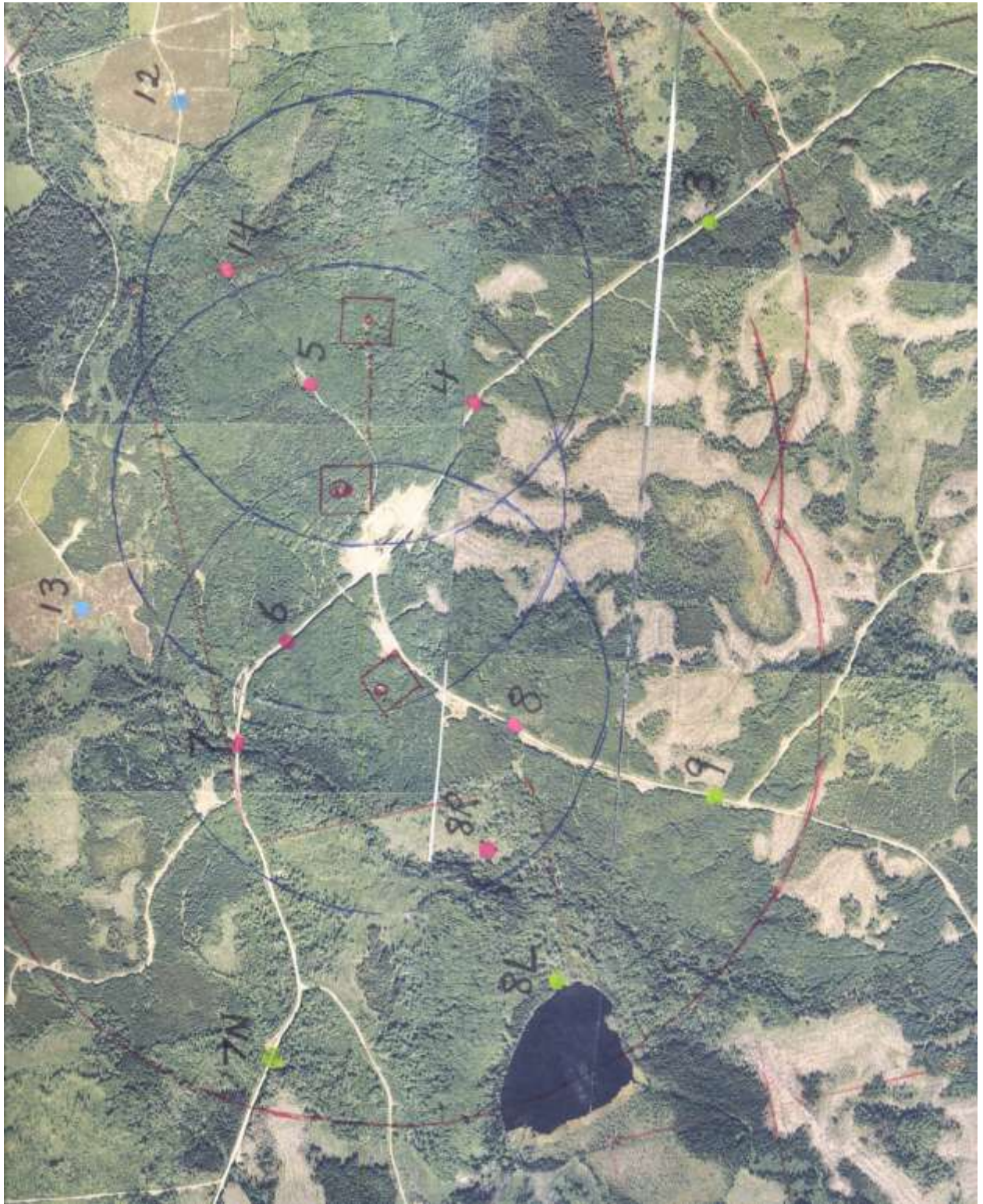
Habitat surrounding the proposed wind turbine sites was studied using NS DNR Forest Cover Maps and from the study of 2004 air photographs. A visit was also made through the site. Habitat at the area is predominately young forest that is regenerated after extensive forest harvest. Riparian habitat along the South Branch North River occurs within 500 metres of the turbines. To the north and at a distance over 500 metre from turbines is commercial blueberry fields.

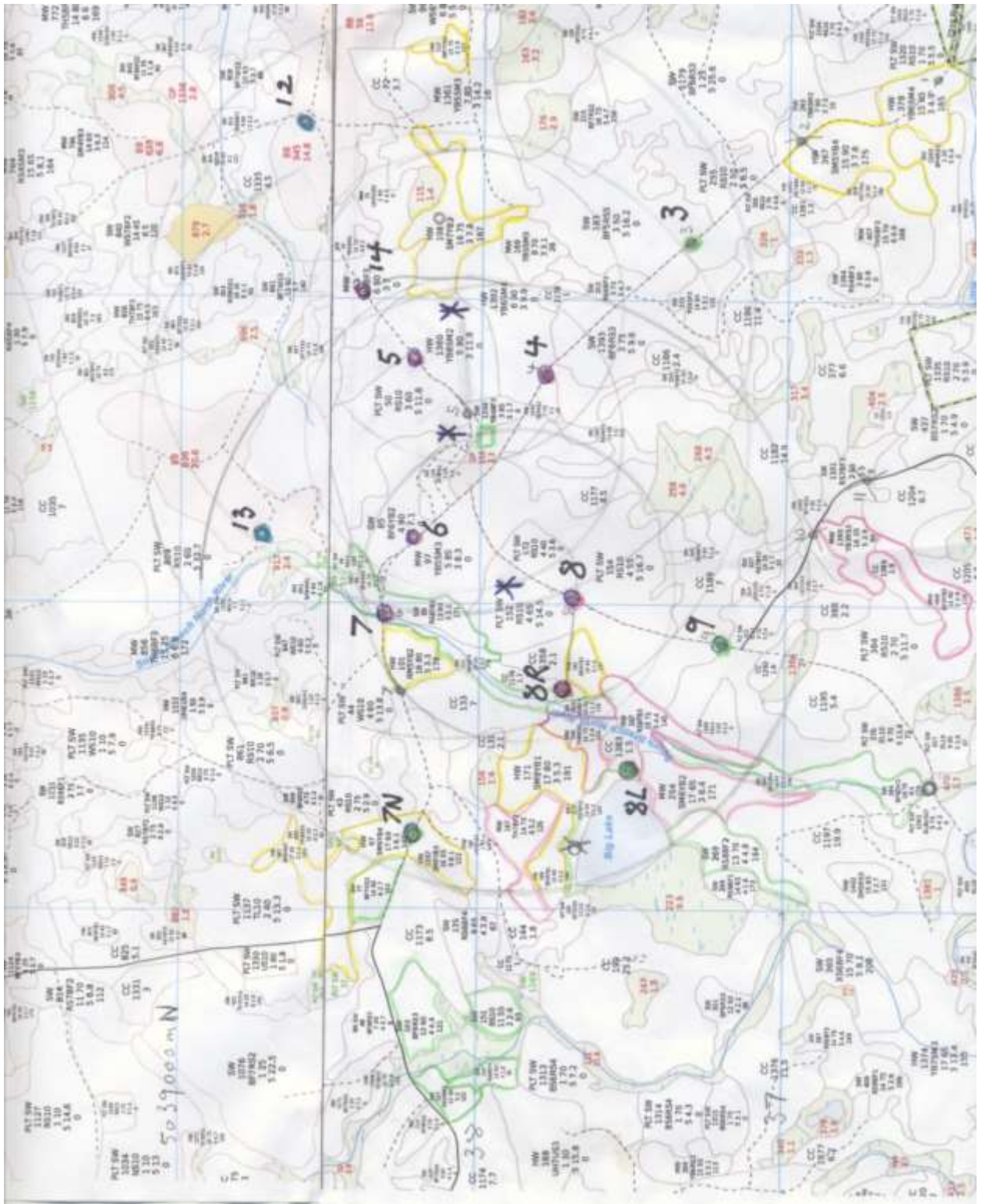
Bird monitoring will use a combination of Point Counts and Stopover Counts. Point Counts, as known, are a standardized survey type used for breeding birds. They are from stationary points and identify breeding birds from song or by sight during a 10 minute stop. Stopover Counts will use the same locations as for the Point Counts. Stopover Counts are less standardized than point counts and can have various approaches, but must be of a design that is repeatable.

Mapping is attached to illustrate habitat and chosen point count and stopover locations.

Seven (7) Point Count locations are chosen within 500 metres of the proposed turbine locations. Two (2) of these points will occur near riparian habitat and the other five (5) within young forest. Another six (6) Point Count locations are situated at distances between 500-1000 metres from any turbine. Points in the 500-1000 metre zone will serve somewhat as control plots and also will survey avifauna at Big Lake and about commercial blueberry fields. There are a total of 13 Point Count locations. Locations are situated at least 250 metres apart.

During spring and fall bird migration, two variations of Stopover Counts are proposed. Where a point is readily accessible by vehicle the observer will look and listen for existing birds from a stationary point for a minimum of 10 minutes. There are 8 of these point type. There are two and perhaps three





| type of monitoring | date | time | time | observer | start | end temp | start | wind | cloud cover | visibility | comments | pre | signif_weather |
|--------------------|------------|-------|--------|------------------------------|--------|----------|------------|-----------|-------------|------------|----------|------|--------------------------------------------------------------------------------------------|
| | | start | finish | | temp C | C | wind speed | direction | percent | m | | post | |
| Area search | 26/04/2014 | 1345 | 1500 | Ken McKenna/ Ross Hall | 9 | | 20 | N | | | | | |
| Spring migration | 30/04/2014 | 520 | 1015 | Ken McKenna | -2 | | 10 | N | 100% CLOUD | | | | |
| Passage Count | 30/04/2014 | 1030 | 1100 | Ken McKenna/ Ken McKenna/ | 4 | | 10 | N | 20% CLOUD | | | | |
| Nocturnal count | 30/04/2014 | 2045 | 2220 | Ross Hall | -2 | | 5 | N | | | | | |
| spring migration | 14/05/2014 | 510 | 1030 | Ken McKenna | -4 | 8 | 5 | NE | clear | | | | |
| Passage Count | 14/05/2014 | 1100 | 1200 | Ken McKenna | -2 | 0 | 12 | SW | clear | | | | |
| spring migration | 21/05/2014 | 502 | 1030 | Ken McKenna | 5 | 17 | 3 | SSE | slight fog | 100 | | | |
| spring migration | 29/05/2014 | 450 | 945 | Ken McKenna | 1 | 7 | 3 | NW | clear | | | | |
| Breeding bird | 09/06/2014 | 445 | 945 | Ken McKenna | 3 | 13 | 3 | S | clear | | | | |
| Breeding bird | 28/06/2014 | 450 | 930 | Ken McKenna | 4 | 14 | 2 | NW | clear | | | | |
| Fall Migration | 08/09/2014 | 650 | 1120 | Ken McKenna | 3 | 14 | 5 | N | clear | | | pre | |
| Passage Count | 08/09/2014 | 1130 | 1305 | Ken McKenna | 14 | 17 | 15 | N | clear | | | pre | |
| Passage Count | 13/09/2014 | 1020 | 1150 | Ken McKenna | 14 | 21 | 10 | E | 20% cloud | | | pre | 10% cloud on leaving 40% cloud at end with heavy clouds approaching from north |
| Passage Count | 19/09/2014 | 1000 | 1140 | Ken McKenna | 6 | 10 | 25 | N | clear | | | pre | |
| Fall Migration | 24/09/2014 | 705 | 1150 | Ken McKenna | 5 | 11 | 15 | NW | clear | | | pre | |
| Passage Count | 24/09/2014 | 1220 | 1250 | Ken McKenna | 11 | 11 | 10 | W | clear | | | pre | |
| Fall Migration | 06/10/2014 | 717 | 1125 | Ken McKenna | 10 | 14 | 5 | WSW | 100 cloud | | | pre | skies cleared 20 min after start of survey |
| Passage Count | 06/10/2014 | 1144 | 1215 | Ken McKenna | 14 | 15 | 15 | WNW | 40% cloud | | | pre | |

**Summary of Spring/Summer 2014 Avian Study
Proposed MacKenzie Settlement Windmill Site
Ken McKenna**

An avian survey was done on the proposed windmill site at MacKenzie Settlement, *Colchester* during the spring and summer of 2014. The survey consisted of ten minute point counts at 13 locations and five transect counts sampling representative habits types in the study area. Incident sightings from an early scouting trip April 26 with retired regional DNR biologist, Ross Hall are also presented. Spring migration counts took place April 30 and May 14, 21 and 29. Breeding bird surveys took place June 9 and 28. A Nocturnal bird survey also took place April 30 and I was again joined by Ross Hall for that survey. In addition, a small window of passage counting took place April 30 and May 14 after the spring migration counting.

Six species of waterfowl were noted. All but Surf Scoter could nest in the vicinity with only Mallard confirmed. The presence of Surf Scoter in the Big Lake might indicate the lakes in the area might be used by migrating waterfowl shortly after ice thaw. Double-crested Cormorant presence would be in a similar category with this species using the lake during migration. Common Loon was seen only once but the lake seems large enough to have a nesting pair.

Three species of raptor were noted – Bald eagle near Big Lake and Northern Harrier and Red-tailed Hawk near blueberry fields off Upper Kempton Cross Road. Both American Woodcock and Wilson's Snipe were detected on the nocturnal survey and likely common breeders. Both do aerial displays near nesting areas. Killdeer was noted in the quarry off Upper Kemptown Cross Road and was found breeding there during the last Maritime Breeding Bird Atlas.

Barred Owl and Northern Saw-whet Owl likely nest in the area and although not detected, Great Horned Owl would also likely use the habitat for breeding.

Five woodpecker species were detected with all likely breeding in the area. Black-backed Woodpecker was not detected.

Five species of flycatcher were detected and were a little late arriving this year. **Olive-sided Flycatcher** normally arrives third week of May, but I did not detect any until my June 28th visit when I heard three. One was in the vicinity of Big Lake and two were calling from the area near the quarry near the blueberry field. Both areas represent good breeding area for this species which is listed by COSEWIC as "threatened" in NS. **Eastern Wood-Pewee** also was found in both dates of the breeding survey, likely nests and is a COSEWIC species of special concern.

For the Corvidae family, both Gray and Blue Jays were present and crows in small numbers. **Common Ravens** were **very common** and constantly flying about or in the blueberry fields or Cross Road quarry. On May 21, I flushed 30 Ravens from the Cross Rd. quarry and these were probably part of the flock of **105** in the blueberry field. Most

days I saw flocks of 10-30 ravens. Common Ravens were the vast majority of the birds I noted from the passage counts. Most were in the distance near the Colchester Balefill. Also from the passage counts, flocks of gulls were seen around the balefill, but I did not note any gulls in the study area.

Although both Tree and Barn Swallow were sighted on one day each, they do not appear to be in any number in the study area. Boreal Chickadees were found in small numbers on three days. Winter Wren was more common than at most locations I have surveyed.

There were three species of thrush. Good numbers of Hermit Thrush and American Robin were noted in migration in late April. The robins seem to favour the blueberry fields and were there in significant numbers in spring migration.

I noted 18 species of wood warbler with all but Blackpoll Warbler likely breeding. Black-throated Green Warbler was especially abundant. Often hard to find in many locations, Bay-breasted Warbler was seen on four of the study days from a couple of locations. **Canada Warbler** on the COSEWIC status as “threatened” was noted on both June dates and can be assumed to be probably breeding in 2-3 areas of the study territory.

Six species of sparrow were noted. Fox Sparrow was not detected, but would probably passed through in migration earlier than the study dates. No Vesper Sparrows were detected in either of the sections of the blueberry fields.

Rusty Blackbird was one of three species of blackbird noted. This is a species of special concern (COSEWIC) and a single male was found singing in a damp area on the transect between the two blueberry fields. There is good habitat for this species here or around either Big and Little Lakes.

Four species of finch were present and although not found, in this part of the study, both crossbill species might be found at times when conifers are supporting good cone crops. This was not the case this spring/summer.

Mammals Observations

Red Squirrel

Groundhog

Snow-shoe Hare

Coyote- May 29

Black Bear- prints on trail to Big Lake –June 9

Butterfly Observations

Dreamy Duskywing

Brown Elfin

Mourning Cloak
Arctic Skipper
Hobomok Skipper
Long-dash Skipper
Northern Spring Azure
Canadian Tiger Swallowtail
Harris Checkerspot
Northern Crescent
Clouded Sulphur
Silver-bordered Fritillary

Amphibians
Spring Peeper
Wood Frog
Green Frog
Bull Frog

Wildflower observations
May 14
Spring Beauty
Wild Strawberry
Small White Violet

May 21
Dwarf Ginseng
Nodding trillium
Dutchman's Breeches
Spring Beauty
Painted Trillium
Small White Violet
Hobblebush
Trout lily
Bluet
Wild Strawberry

May 29
Rose Twisted –stalk
Wild Lily-of-the-Valley
Dwarf Ginseng
Painted trillium
Hobblebush
Small White Violet
Spring Beauty
Trout Lily
Wild Sarsaparilla

Wild Strawberry

June 9

Starflower

Wild Lily-of-the-Valley

Northern Blue Violet

Bunchberry

Wild Sarsaparilla

Dewberry

Dwarf ginseng

June 28

Wild lily-of-the-Valley

Bunchberry

Buttercup sp?

Ken McKenna Resume

Education:

BSC Biology 1975 University Prince Edward Island
DDS 1979 Dalhousie University

Bird related activities:

Participant Christmas Bird Counts-1991- present

Compiler Pictou Harbour Christmas Bird Count- 1992- present

Past member of Eastern Mainland Field Naturalists and was representative for that club to the Federation of NS Naturalists

Co-founder of Pictou Co. Naturalists Club-1995

Program coordinator of Pictou Co. Naturalists Club 1995-present

Seasonal editor NS Bird Society quarterly magazine 2001- present

Compiler NS Spring Migration Count (Pictou Co.) 1992- present

Breeding Bird Survey routes (1-2 yearly) for CWS- Bird Studies Canada 1999-present
James River, Tatamagouche and Trafalgar are routes that have been run- James River every year during that period; Started a new BBS route Crow's Nest in 2014.

Atlantic Canada Nocturnal Owl Survey for Bird Studies Canada 2001- present 2-3 routes yearly

Regional Coordinator area 23 (Antigonish) for the Maritime Breeding Bird Atlas – 2006-2010

Compile Data for nearly a decade on the New Glasgow Temperance St school Chimney Swifts and participant in the Maritime Swiftwatch Program

Piping Plover Guardian Pictou Co. beaches for 20+ years

Have volunteered with CWS on Marsh surveys for Willets and Nelson's Sparrows

Have Volunteered with CWS with Kate Bredin on uptake of chemicals in Tree Swallows near a local pulp mill (field work only)

Volunteer Bird Studies NS Nature Trust - St Mary's River, 2013, 2014

Volunteer Bird Inventory Abraham's Lake for Nature Conservancy Canada

Bird Related Work Projects:

Windmill EA: Bird section Forbes Lake, Pictou Co.- spring breeding and fall,- 2012

Bird Nest Survey for Heritage Gas -spring 2013, spring 2014

Bird Study Brierly Brook Quarry spring, breeding and fall 2013

| project_name | survey type | site_number | | start | | species_code | total # |
|----------------------|------------------|-----------------|----|-------|------|--------------------------|---------|
| | | er | D | M | time | | |
| Mackenzie Settlement | Spring migration | MS1 | 26 | 4 | 1347 | Black-capped Chickadee | 1 |
| Mackenzie Settlement | Spring migration | MS1 | 26 | 4 | 1347 | American Robin | 1 |
| Mackenzie Settlement | Spring migration | MS1 | 26 | 4 | 1347 | Unknown Raptor | 1 |
| Mackenzie Settlement | Spring migration | MS2 | 26 | 4 | 1355 | Black-capped Chickadee | 2 |
| Mackenzie Settlement | Spring migration | MS2 | 26 | 4 | 1355 | Dark-eyed Junco | 2 |
| Mackenzie Settlement | Spring migration | MS3 | 26 | 4 | 1400 | Northern Flicker | 1 |
| Mackenzie Settlement | Spring migration | MS4 | 26 | 4 | 1405 | Dark-eyed Junco | 1 |
| Mackenzie Settlement | Spring migration | MS7 | 26 | 4 | 1420 | Purple Finch | 1 |
| Mackenzie Settlement | Spring migration | MS7 | 26 | 4 | 1420 | Black-capped Chickadee | 1 |
| Mackenzie Settlement | Spring migration | MS51 | 26 | 4 | 1420 | Common Raven | 1 |
| Mackenzie Settlement | Spring migration | MS9 | 26 | 4 | 1440 | American Crow | 1 |
| Mackenzie Settlement | Spring migration | MS9 | 26 | 4 | 1440 | American Robin | 1 |
| Mackenzie Settlement | Spring migration | Transect to 53 | 26 | 4 | 1450 | Ruffed Grouse | 2 |
| Mackenzie Settlement | Spring migration | Lake | 26 | 4 | 1510 | Bald Eagle | 1 |
| Mackenzie Settlement | Spring migration | Lake | 26 | 4 | 1510 | Surf Scooter | 2 |
| Mackenzie Settlement | Spring migration | Lake | 26 | 4 | 1510 | Common Loon | 1 |
| Mackenzie Settlement | Spring migration | Lake | 26 | 4 | 1510 | Double-crested Cormorant | 1 |
| Mackenzie Settlement | Spring migration | Lake | 26 | 4 | 1510 | Mallard | |
| Mackenzie Settlement | Spring migration | Lake | 26 | 4 | 1510 | Black-capped Chickadee | 3 |
| Mackenzie Settlement | Spring migration | Lake | 26 | 4 | 1510 | Golden-crowned Kinglet | 2 |
| Mackenzie Settlement | Spring migration | Transect to MS5 | 26 | 4 | 1550 | Common Raven | 1 |
| Mackenzie Settlement | Spring migration | Transect to MS5 | 26 | 4 | 1550 | Dark-eyed Junco | 1 |
| Mackenzie Settlement | Spring migration | Transect to MS5 | 26 | 4 | 1550 | Golden-crowned Kinglet | 2 |
| Mackenzie Settlement | Spring migration | Transect to MS5 | 26 | 4 | 1550 | Ruby-crowned Kinglet | 1 |

| | | | | | | | |
|----------------------|------------------|------------------------|----|---|------|------------------------|---|
| MacKenzie Settlement | Spring migration | transect drive to MS55 | 26 | 4 | 1640 | Northern Harrier | 1 |
| MacKenzie Settlement | Spring migration | transect drive to MS55 | 26 | 4 | 1640 | American Robin | 1 |
| MacKenzie Settlement | Spring migration | transect drive to MS55 | 26 | 4 | 1640 | Common Raven | 1 |
| MacKenzie Settlement | Spring migration | transect drive to MS55 | 26 | 4 | 1640 | Song Sparrow | 1 |
| MacKenzie Settlement | Spring migration | transect drive to MS55 | 26 | 4 | 1640 | Northern Flicker | 2 |
| MacKenzie Settlement | Spring migration | transect drive to MS55 | 26 | 4 | 1640 | Northern Shrike* | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Winter Wren | 3 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | American Robin | 2 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Hermet Thrush | 3 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | White-throated Sparrow | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Brown Creeper | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Winter Wren | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Ruffed Grouse | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Hermet Thrush | 3 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | American Robin | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | White-throated Sparrow | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Common Raven | 2 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | Barred Owl | 1 |
| MacKenzie Settlement | spring migration | MS56 | 30 | 4 | 530 | American Robin | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 | Hermet Thrush | 2 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 | Red-breasted Nuthatch | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 | American Robin | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 | Common Raven | 2 |

| | | | | | | |
|----------------------|------------------|------|----|---|----------------------------|---|
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 Hermet Thrush | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 Winter Wren | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 Ruffed Grouse | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 Common Raven | 1 |
| MacKenzie Settlement | spring migration | MS3 | 30 | 4 | 545 Purple Finch | 2 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Dark-eyed Junco | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 White-throated Sparrow | 2 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 American Robin | 2 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Purple Finch | 2 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Hermet Thrush | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Hermet Thrush | 2 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Winter Wren | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 White-throated Sparrow | 2 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 American Robin | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 American Crow | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Northern Flicker | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Ruffed Grouse | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Hermet Thrush | 2 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Common Raven | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Purple Finch | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 Evening Grosbeak | 1 |
| MacKenzie Settlement | spring migration | MS4 | 30 | 4 | 559 American Goldfinch | 1 |
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | 612 Black-capped Chickadee | 1 |
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | 612 American Robin | 2 |

| | | | | | | |
|----------------------|------------------|------|----|---|-------------------------------|---|
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | Ruby-crowned 612 Kinglet | 1 |
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | 612 Dark-eyed Junco | 1 |
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | 612 Winter Wren | 2 |
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | 612 Ruffed Grouse | 1 |
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | Unknown 612 Woodpecker | 1 |
| MacKenzie Settlement | spring migration | MS51 | 30 | 4 | 612 Purple Finch | 1 |
| MacKenzie Settlement | spring migration | MS6 | 30 | 4 | Golden-crowned 628 Kinglet | 2 |
| MacKenzie Settlement | spring migration | MS6 | 30 | 4 | 628 Purple Finch | 1 |
| MacKenzie Settlement | spring migration | MS6 | 30 | 4 | 628 Dark-eyed Junco | 2 |
| MacKenzie Settlement | spring migration | MS6 | 30 | 4 | 628 Ruffed Grouse | 1 |
| MacKenzie Settlement | spring migration | MS6 | 30 | 4 | 628 Common Raven | 1 |
| MacKenzie Settlement | spring migration | MS6 | 30 | 4 | 628 Unknown Duck | 1 |
| MacKenzie Settlement | spring migration | MS6 | 30 | 4 | 628 Common Grackle | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Winter Wren | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | Red-breasted 645 Nuthatch | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Dark-eyed Junco | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | White-throated 645 Sparrow | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | Ruby-crowned 645 Kinglet | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | Black-capped 645 Chickadee | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Northern Flicker | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Winter Wren | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Purple Finch | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | White-throated 645 Sparrow | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Swamp Sparrow | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | Black-capped 645 Chickadee | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Common Raven | 1 |

| | | | | | | |
|----------------------|------------------|------|----|---|-------------------------------|---|
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Ruffed Grouse | 1 |
| MacKenzie Settlement | spring migration | MS7N | 30 | 4 | 645 Hermit Thrush | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 American Robin | 2 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 Purple Finch | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | Black-capped 702 Chickadee | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 Dark-eyed Junco | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | Red-breasted 702 Nuthatch | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | Golden-crowned 702 Kinglet | 2 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 Hermit Thrush | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | Ruby-crowned 702 Kinglet | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 Dark-eyed Junco | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 American Goldfinch | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 Northern Flicker | 1 |
| MacKenzie Settlement | spring migration | MS8 | 30 | 4 | 702 Purple Finch | 1 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | 715 American Robin | 1 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | 715 Ruffed Grouse | 1 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | 715 Canada Goose | 2 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | 715 Purple Finch | 1 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | 715 Common Raven | 1 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | Ruby-crowned 715 Kinglet | 1 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | Red-breasted 715 Nuthatch | 1 |
| MacKenzie Settlement | spring migration | MS9 | 30 | 4 | 715 Evening Grosbeak | 2 |
| MacKenzie Settlement | Transect count | MS53 | 30 | 4 | 731 Dark-eyed Junco | 2 |
| MacKenzie Settlement | Transect count | MS53 | 30 | 4 | Pileated 731 Woodpecker | 1 |
| MacKenzie Settlement | Transect count | MS53 | 30 | 4 | Black-capped 731 Chickadee | 2 |
| MacKenzie Settlement | Transect count | MS53 | 30 | 4 | 731 Dark-eyed Junco | 1 |

| | | | | | | |
|----------------------|-----------------|---------------------|----|---|------------------------------|---|
| MacKenzie Settlement | Transect count | transect to MS53 | 30 | 4 | 731 Purple Finch | 2 |
| MacKenzie Settlement | Transect count | transect to MS53 | 30 | 4 | 731 American Robin | 1 |
| MacKenzie Settlement | Transect count | transect to MS53 | 30 | 4 | 731 Black-capped Chickadee | 8 |
| MacKenzie Settlement | Transect count | transect to MS53 | 30 | 4 | 731 Boreal Chickadee | 2 |
| MacKenzie Settlement | Migration count | MS53 | 30 | 4 | 739 Winter Wren | 1 |
| MacKenzie Settlement | Migration count | MS53 | 30 | 4 | 739 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS53 | 30 | 4 | 739 American Robin | 1 |
| MacKenzie Settlement | Transect count | Transect MS 53-Lake | 30 | 4 | 750 American Robin | 2 |
| MacKenzie Settlement | Transect count | Transect MS 53-Lake | 30 | 4 | 750 Yellow-bellied Sapsucker | 1 |
| MacKenzie Settlement | Transect count | Transect MS 53-Lake | 30 | 4 | 750 Purple Finch | 1 |
| MacKenzie Settlement | Transect count | Transect MS 53-Lake | 30 | 4 | 750 Pileated Woodpecker | 1 |
| MacKenzie Settlement | Migration count | LAKE | 30 | 4 | 759 Yellow-bellied Sapsucker | 2 |
| MacKenzie Settlement | Migration count | LAKE | 30 | 4 | 759 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count | LAKE | 30 | 4 | 759 Black-capped Chickadee | 2 |
| MacKenzie Settlement | Migration count | LAKE | 30 | 4 | 759 American Crow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 30 | 4 | 759 Northern Flicker | 1 |
| MacKenzie Settlement | Transect count | transect to MS5 | 30 | 4 | 832 Purple Finch | 2 |
| MacKenzie Settlement | Transect count | transect to MS5 | 30 | 4 | 832 Black-capped Chickadee | 2 |
| MacKenzie Settlement | Transect count | transect to MS5 | 30 | 4 | 832 American Goldfinch | 1 |
| MacKenzie Settlement | Transect count | transect to MS5 | 30 | 4 | 832 Purple Finch | 1 |
| MacKenzie Settlement | Transect count | transect to MS5 | 30 | 4 | 832 Common Raven | 1 |
| MacKenzie Settlement | Migration count | MS5 | 30 | 4 | 838 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count | MS5 | 30 | 4 | 838 Common Raven | 2 |
| MacKenzie Settlement | Migration count | MS5 | 30 | 4 | 838 American Crow | 1 |

| | | | | | | |
|----------------------|-----------------|------------------|----|---|-------------------------------|----|
| MacKenzie Settlement | Transect count | Transect to MS54 | 30 | 4 | 849 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count | MS54 | 30 | 4 | Black-capped 852 Chickadee | 4 |
| MacKenzie Settlement | Migration count | MS54 | 30 | 4 | 852 Purple Finch | 1 |
| MacKenzie Settlement | Migration count | MS54 | 30 | 4 | 852 Common Raven | 2 |
| MacKenzie Settlement | Migration count | MS54 | 30 | 4 | 852 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count | MS54 | 30 | 4 | 852 Blue Jay | 1 |
| MacKenzie Settlement | Migration count | MS54 | 30 | 4 | 852 Common Raven | 1 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 American Robin | 22 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 Song Sparrow | 3 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 Winter Wren | 1 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 American Crow | 1 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 American Robin | 1 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 Common Raven | 6 |
| MacKenzie Settlement | Migration count | MS55 | 30 | 4 | 924 American Goldfinch | 1 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | 935 Winter Wren | 1 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | Ruby-crowned 935 Kinglet | 2 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | Red-breasted 935 Nuthatch | 1 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | 935 Song Sparrow | 1 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | Yellow-rumped 935 Warbler | 1 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | 935 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | Golden-crowned 935 Kinglet | 2 |
| MacKenzie Settlement | Transect count | Drive to MS13 | 30 | 4 | Black-capped 935 Chickadee | 1 |
| MacKenzie Settlement | Migration count | MS13 | 30 | 4 | 949 Savannah Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 30 | 4 | 949 American Robin | 4 |
| MacKenzie Settlement | Migration count | MS13 | 30 | 4 | 949 Northern Flicker | 1 |

| | | | | | | |
|----------------------|---------------------------|----|---|------|------------------------|---|
| MacKenzie Settlement | Migration count MS13 | 30 | 4 | 949 | Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS13 | 30 | 4 | 949 | American Robin | 6 |
| MacKenzie Settlement | Migration count MS13 | 30 | 4 | 949 | Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS13 | 30 | 4 | 949 | Common Raven | 2 |
| MacKenzie Settlement | Nocturnal count MS9 | 30 | 4 | 2045 | American Woodcock | 2 |
| MacKenzie Settlement | Nocturnal count MS9 | 30 | 4 | 2045 | Wilson's Snipe | 1 |
| MacKenzie Settlement | Nocturnal count MS9 | 30 | 4 | 2045 | Ruffed Grouse | 1 |
| MacKenzie Settlement | Nocturnal count MS9 | 30 | 4 | 2045 | Hermet Thrush | 1 |
| MacKenzie Settlement | Nocturnal count MS9 | 30 | 4 | 2045 | Winter Wren | 1 |
| MacKenzie Settlement | Nocturnal count MS9 | 30 | 4 | 2045 | American Robin | 1 |
| MacKenzie Settlement | Nocturnal count MS9 | 30 | 4 | 2045 | Barred Owl | 2 |
| MacKenzie Settlement | Nocturnal count MS8 | 30 | 4 | 2120 | Northern Saw-whet Owl | 1 |
| MacKenzie Settlement | Nocturnal count MS Quarry | 30 | 4 | 2158 | Northern Saw-whet Owl | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Swamp Sparrow | 2 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | American Robin | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Hermet Thrush | 2 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Red-breasted Nuthatch | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Swamp Sparrow | 2 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | White-throated Sparrow | 2 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | American Robin | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 | Hermet Thrush | 2 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 American Crow | 1 |
| MacKenzie Settlement | Migration count MS3 | 14 | 5 | 516 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 American Robin | 2 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Black-capped Chickadee | 2 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 American Robin | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Yellow-rumped Warbler | 2 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 American Crow | 2 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Common Raven | 2 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS4 | 14 | 5 | 529 Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 White-throated Sparrow | 2 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Yellow-rumped Warbler | 2 |

| | | | | | |
|----------------------|----------------------|----|---|-----------------------|---|
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 American Robin | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | Unknown | |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Woodpecker | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | Yellow-rumped | |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Warbler | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | White-throated | |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Sparrow | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | Ruby-crowned | |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Kinglet | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Winter Wren | 2 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Downy Woodpecker | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Evening Grosbeak | 1 |
| MacKenzie Settlement | Migration count MS51 | 14 | 5 | 546 Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | White-throated | |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Sparrow | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | Yellow-rumped | |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | Golden-crowned | |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Kinglet | 2 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Blue-headed Vireo | 2 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Boreal Chickadee | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | Ruby-crowned | |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Kinglet | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 American Robin | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 American Crow | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | Black-throated | |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Green Warbler | 1 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Common Raven | 2 |
| MacKenzie Settlement | Migration count MS6 | 14 | 5 | 601 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 American Robin | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 White-throated Sparrow | 2 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Yellow-bellied Sapsucker | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Winter Wren | 2 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 White-throated Sparrow | 2 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Palm Warbler | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Unknown Woodpecker | 2 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 American Robin | 1 |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 Northern Flicker | |
| MacKenzie Settlement | Migration count MS7N | 14 | 5 | 615 American Goldfinch | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 White-throated Sparrow | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Purple Finch | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Hermet Thrush | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Black-throated Green Warbler | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Ovenbird | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Ruby-crowned Kinglet | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Black-capped Chickadee | |

| | | | | | |
|----------------------|---------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Yellow-rumped Warbler | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 American Robin | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Ruffed Grouse | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Yellow-bellied Sap Sucker | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Common Raven | |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 American Goldfinch | 1 |
| MacKenzie Settlement | Migration count MS8 | 14 | 5 | 632 Common Raven | 2 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Yellow-rumped Warbler | 3 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Northern Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Lincoln's Sparrow | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 American Robin | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 White-throated Sparrow | 3 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Blue-headed Vireo | 2 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Yellow-bellied Sap Sucker | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS9 | 14 | 5 | 646 Unknown Woodpecker | 1 |

| | | | | | | |
|----------------------|-----------------|------|----|---|-----------------------|---|
| MacKenzie Settlement | Migration count | MS9 | 14 | 5 | 646 Purple Finch | 2 |
| MacKenzie Settlement | Migration count | MS9 | 14 | 5 | 646 Common Raven | 1 |
| MacKenzie Settlement | Migration count | MS9 | 14 | 5 | 646 Belted Kingfisher | 1 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 Warbler | 1 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 Warbler | 2 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 American Robin | 1 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 Green Warbler | 3 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 Ovenbird | 2 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 Green Warbler | 1 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 Evening Grosbeak | 1 |
| MacKenzie Settlement | Transect count | MS53 | 14 | 5 | 650 Boreal Chickadee | 1 |
| MacKenzie Settlement | Migration count | MS53 | 14 | 5 | 711 Warbler | 2 |
| MacKenzie Settlement | Migration count | MS53 | 14 | 5 | 711 Northern Parula | 1 |
| MacKenzie Settlement | Migration count | MS53 | 14 | 5 | 711 Ovenbird | 2 |
| MacKenzie Settlement | Migration count | MS53 | 14 | 5 | 711 Green Warbler | 1 |
| MacKenzie Settlement | Migration count | MS53 | 14 | 5 | 711 Winter Wren | 1 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Ovenbird | 2 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Green Warbler | 2 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Chickadee | 2 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Kinglet | 1 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Sparrow | 1 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Warbler | 2 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Warbler | 1 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Ruffed Grouse | 1 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Sucker | 1 |
| MacKenzie Settlement | Transect count | 54 | 14 | 5 | 722 Common Raven | 1 |

| | | | | | | |
|----------------------|-----------------|----------------|----|---|----------------------------------------|---|
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 722 Winter Wren | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 722 Northern Flicker | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Warbler Yellow-rumped | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Kinglet | 3 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Warbler Black and White | 2 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Sucker Yellow-bellied Sap | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Warbler Black-throated | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Green Warbler Black-capped | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Chickadee | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Blue-headed Vireo Yellow-rumped | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Warbler Black-capped | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Chickadee | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Ovenbird Unknown | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Woodpecker | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Song Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 American Robin Red-winged | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Blackbird | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Swainson's Thrush Yellow-rumped | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Warbler White-throated | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Purple Finch | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Common Raven | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Blue Jay | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 American Black Duck | 2 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Bald Eagle | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 American Crow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 14 | 5 | 722 Common Raven | 2 |

| | | | | | | |
|----------------------|-----------------|----------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Yellow-rumped Warbler | 3 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Ruffed Grouse | 1 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Ovenbird | 1 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Purple Finch | 1 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 American Robin | 1 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Yellow-bellied Sapsucker | 1 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 Common Raven | 2 |
| MacKenzie Settlement | Transect count | Transect MS5 | 14 | 5 | 803 American Goldfinch | 1 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Black-capped Chickadee | 3 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Yellow-rumped Warbler | 3 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Purple Finch | 1 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Common Raven | 2 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Barn Swallow | 1 |
| MacKenzie Settlement | Migration count | MS5 | 14 | 5 | 813 Pine Siskin | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Hairy Woodpecker | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Purple Finch | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Ovenbird | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Blue-headed Vireo | 2 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 14 | 5 | 823 Common Raven | 4 |

| | | | | | | |
|----------------------|----------------------|----|---|-----|------------------------------|---|
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Dark-eyed Junco | 2 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count MS54 | 14 | 5 | 828 | American Goldfinch | 2 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Lincoln's Sparrow | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Savannah Sparrow | 2 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | American Robin | 3 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Song Sparrow | 2 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | American Robin | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Savannah Sparrow | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Common Raven | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | Barn Swallow | 1 |
| MacKenzie Settlement | Migration count MS55 | 14 | 5 | 904 | American Goldfinch | 1 |

| | | | | | | |
|----------------------|----------------|----------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | Black and White 915 Warbler | 2 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | Black-throated 915 Green Warbler | 3 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Swainson's Thrush | 1 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Magnolia Warbler | 2 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Savannah Sparrow | 1 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Gray Jay | 2 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Swamp Sparrow | 3 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | Ruby-crowned 915 Kinglet | 1 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | Golden-crowned 915 Kinglet | 1 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Northern Parula | 3 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Blue-headed Vireo | 2 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Rusty Blackbird | 1 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Brown Creeper | 1 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Winter Wren | 1 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | White-throated 915 Sparrow | 2 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | Yellow-rumped 915 Warbler | 2 |
| MacKenzie Settlement | Transect count | Drive transect to 13 | 14 | 5 | 915 Dark-eyed Junco | 2 |

| | | | | | |
|----------------------|----------------------|----|---|-------------------------------|----|
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Savannah Sparrow | 2 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | Ruby-crowned 925 Kinglet | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Mallard | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 American Robin | 7 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | Yellow-rumped 925 Warbler | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Northern Flicker | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | Black-capped 925 Chickadee | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Common Raven | 30 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Boreal Chickadee | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Blue Jay | 1 |
| MacKenzie Settlement | Migration count MS13 | 14 | 5 | 925 Common Grackle | 5 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | Common 508 Yellowthroat | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Dark-eyed Junco | 2 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | Golden-crowned 508 Kinglet | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | Yellow-rumped 508 Warbler | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 American Robin | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | Ruby-crowned 508 Kinglet | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | White-throated 508 Sparrow | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | Red-breasted 508 Nuthatch | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Swainson's Thrush | 1 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 American Robin | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 Ring-necked Pheasant | 1 |
| MacKenzie Settlement | Migration count MS3 | 21 | 5 | 508 American Crow | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Swainson's Thrush | 2 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 American Robin | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 American Redstart | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Blue-headed Vireo | 2 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Swainson's Thrush | 2 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 American Robin | |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Yellow-bellied Sapsucker | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS4 | 21 | 5 | 520 Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Black-throated Green Warbler | 2 |

| | | | | | |
|----------------------|----------------------|----|---|-----------------------------------------|---|
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 American Robin | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Swainson's Thrush White-throated | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Sparrow | 2 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Hermet Thrush Black-throated | 2 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Blue-headed Vireo Yellow-rumped | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Warbler Ruby-crowned | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Kinglet | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Northern Parula Black-capped | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Chickadee | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 American Robin | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Ruffed Grouse White-throated | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Sparrow Northern | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Waterthrush Unknown | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Woodpecker | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS51 | 21 | 5 | 536 Dark-eyed Junco Black and White | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 Warbler Blackburnian | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 Warbler Black-throated | 2 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 Ovenbird Northern | 2 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 Waterthrush | 1 |

| | | | | | | |
|----------------------|----------------------|----|---|-----|------------------------------|---|
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | White-throated Sparrow | 2 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | Northern Parula | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS6 | 21 | 5 | 548 | Mallard | 3 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Lincoln's Sparrow | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Black-capped Chickadee | 2 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Magnolia Warbler | 2 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Common Yellowthroat | 2 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | American Robin | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Swamp Sparrow | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Northern Parula | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS7N | 21 | 5 | 602 | Yellow-bellied Flycatcher | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 | Boreal Chickadee | 1 |

| | | | | | |
|----------------------|---------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Blue-headed Vireo | 2 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Hermit Thrush | 2 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 American Robin | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 American Redstart | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS8 | 21 | 5 | 615 Northern Flicker | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Common Yellowthroat | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 American Robin | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Hermit Thrush | 1 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------------------|---|
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Swainson's Thrush Black-capped | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Chickadee Ruby-crowned | 2 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Kinglet | 2 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Northern Warbler White-throated | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Sparrow Common | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Yellowthroat | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS9 | 21 | 5 | 632 Canada Goose Golden-crowned | 1 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Kinglet | 1 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Warbler Black and White | 1 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Ovenbird | 1 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Swainson's Thrush Yellow-bellied Sap | 1 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Sucker Black-throated | 1 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Green Warbler Red-breasted | 2 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Nuthatch | 1 |
| MacKenzie Settlement | Transect count 53 | 21 | 5 | 650 Purple Finch Blackburnian | 1 |
| MacKenzie Settlement | Migration count MS53 | 21 | 5 | 658 Warbler Black-throated | 2 |
| MacKenzie Settlement | Migration count MS53 | 21 | 5 | 658 Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS53 | 21 | 5 | 658 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS53 | 21 | 5 | 658 Magnolia Warbler Black-throated Bluel | 1 |
| MacKenzie Settlement | Migration count MS53 | 21 | 5 | 658 Warbler | 1 |
| MacKenzie Settlement | Migration count MS53 | 21 | 5 | 658 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS53 | 21 | 5 | 658 Blue-headed Vireo | 2 |

| | | | | | | |
|----------------------|-----------------|---------------------------|----|---|-------------------------------------|---|
| MacKenzie Settlement | Migration count | MS53 | 21 | 5 | Ruby-crowned 658 Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS53 | 21 | 5 | 658 American Redstart | 1 |
| MacKenzie Settlement | Migration count | MS53 | 21 | 5 | 658 Northern Parula | 1 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | 709 Ovenbird | 4 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | Black-throated 709 Green Warbler | 2 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | Golden-crowned 709 Kinglet | 1 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | Black and White 709 Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | 709 Northern Parula | 1 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | 709 Common Grackle | 1 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | Pileated 709 Woodpecker | 1 |
| MacKenzie Settlement | Transect count | Transect MS53- Lake | 21 | 5 | 709 American Goldfinch | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | 722 Ovenbird | 3 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | Yellow-rumped 722 Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | 722 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | Black-throated 722 Green Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | Black and White 722 Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | Ruby-crowned 722 Kinglet | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | 722 American Robin | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | Black-capped 722 Chickadee | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | 722 Northern Parula | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | Yellow-bellied Sap 722 Sucker | 1 |
| MacKenzie Settlement | Migration count | LAKE | 21 | 5 | 722 Ovenbird | 1 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Hermet Thrush Common | 1 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Yellowthroat | 2 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Northern Flicker | 1 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Song Sparrow White-throated | 1 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Sparrow | 2 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 COR | 2 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Winter Wren | 1 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 American Robin | 1 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Gray Jay | 2 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count LAKE | 21 | 5 | 722 Common Raven | 1 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Ovenbird | 4 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 American Redstart | 2 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Black-throated Green Warbler | 3 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Ruby-crowned Kinglet | 2 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 American Robin | 3 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Yellow-rumped Warbler | 3 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Purple Finch | 2 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Hermet Thrush Blackburnian | 1 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Warbler | 2 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Transect to MS5 | 21 | 5 | 758 American Robin | 3 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 Ovenbird Black-throated | 2 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 Green Warbler Black-capped | 1 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 Chickadee | 2 |

| | | | | | | |
|----------------------|----------------------------------|----|---|-----|------------------------------|---|
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | Yellow-rumped Warbler | 3 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | American Robin | 2 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | Common Raven | 2 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS5 | 21 | 5 | 808 | American Crow | 1 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Ovenbird | 3 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Black-throated Green Warbler | 3 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Purple Finch | 1 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Blue-headed Vireo | 1 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Black and White Warbler | 1 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Magnolia Warbler | 1 |
| MacKenzie Settlement | Transect count 54 Transect to | 21 | 5 | 819 | Common Raven | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Ruby-crowned Kinglet | 4 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Ovenbird | 3 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Northern Parula | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 | Red-breasted Nuthatch | 1 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 Common Raven | 2 |
| MacKenzie Settlement | Migration count MS54 | 21 | 5 | 827 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Savannah Sparrow | 2 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Common Yellowthroat | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Ruby-crowned Kinglet | 2 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 White-throated Sparrow | 3 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Yellow-rumped Warbler | 2 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Red-breasted Nuthatch | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 American Robin | 2 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Northern Warbler | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Northern Waterthrush | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 American Crow | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Ring-necked Pheasant | 1 |
| MacKenzie Settlement | Migration count MS55 | 21 | 5 | 905 Lincoln's Sparrow | 1 |

| | | | | | | |
|----------------------|-----------------|------------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count | MS55 | 21 | 5 | 905 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | MS55 | 21 | 5 | 905 Common Raven | 3 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Northern Flicker | 2 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Black-throated Green Warbler | 4 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Black and White Warbler | 3 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Magnolia Warbler | 9 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Northern Waterthrush | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Hermet Thrush | 2 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Common Raven | 8 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 White-throated Sparrow | 3 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Mallard | 3 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Common Grackle | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Ovenbird | 1 |

| | | | | | | |
|----------------------|-----------------|------------------------|----|---|-------------------------------------|---|
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Boreal Chickadee | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Swamp Sparrow | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 Tree Swallow | 1 |
| MacKenzie Settlement | Transect count | Transect drive to MS13 | 21 | 5 | 915 American Robin | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Song Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | Black-throated 927 Green Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Gray Jay | 2 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | Ruby-crowned 927 Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 American Robin | 2 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Savannah Sparrow | 2 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | Red-winged 927 Blackbird | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | Northern 927 Waterthrush | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | Black-throated 927 Green Warbler | 3 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Ovenbird | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Purple Finch | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | Yellow-rumped 927 Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Savannah Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 American Robin | 4 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | White-throated 927 Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | 927 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 21 | 5 | Black and White 927 Warbler | 1 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------|----|
| MacKenzie Settlement | Migration count MS13 | 21 | 5 | 927 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS13 | 21 | 5 | 927 Common Raven | 10 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Magnolia Warbler | 2 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Common Yellowthroat | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Swamp Sparrow | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Swamp Sparrow | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 American Robin | 2 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Red-breasted Nuthatch | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 American Crow | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Ring-necked Pheasant | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 American Robin | 1 |
| MacKenzie Settlement | Migration count MS3 | 29 | 5 | 504 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Hermet Thrush | 1 |

| | | | | | |
|----------------------|----------------------|----|---|-------------------------------------|---|
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 American Redstart | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 American Robin | 2 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Dark-eyed Junco Black and White | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Warbler | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Blackpoll Warbler | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Magnolia Warbler | 2 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 American Robin | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Swainson's Thrush Common | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Yellowthroat | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Ring-necked Pheasant | 1 |
| MacKenzie Settlement | Migration count MS4 | 29 | 5 | 516 Swainson's Thrush Black-capped | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Chickadee | 2 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Yellow-rumped Warbler | 1 |

| | | | | | |
|----------------------|----------------------|----|---|-----------------------|---|
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Purple Finch | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | White-throated | |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Sparrow | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | Yellow-bellied | |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Flycatcher | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 American Redstart | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 American Redstart | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | White-throated | |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Sparrow | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 American Robin | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS51 | 29 | 5 | 532 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | Black-throated | |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | Blackburnian | |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Winter Wren | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Magnolia Warbler | 2 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | Black and White | |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | White-throated | |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Sparrow | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | Golden-crowned | |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Kinglet | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Northern Parula | 2 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | Yellow-rumped | |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | Common | |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Yellowthroat | 1 |

| | | | | | |
|----------------------|----------------------|----|---|-------------------------------------|---|
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 American Robin | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS6 | 29 | 5 | 548 Hermet Thrush Common | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Yellowthroat | 2 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Magnolia Warbler Chestnut-sided | 2 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Warbler Ruby-crowned | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Kinglet Yellow-rumped | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Warbler | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Northern Parula | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Hermet Thrush White-throated | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Sparrow | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Canada Warbler Black and White | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Warbler Yellow-bellied | 2 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Flycatcher Black-throated | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Lincoln's Sparrow | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 BCCK | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Magnolia Warbler Ring-necked | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Pheasant White-throated | 1 |
| MacKenzie Settlement | Migration count MS7N | 29 | 5 | 600 Sparrow Black-throated | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Green Warbler Black and White | 2 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Warbler | 1 |

| | | | | | |
|----------------------|---------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Yellow-rumped Warbler | 2 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Brown Creeper | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Canada Warbler | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Magnolia Warbler | 2 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Ovenbird | 2 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Northern Parula | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Ring-necked Pheasant | 1 |
| MacKenzie Settlement | Migration count MS8 | 29 | 5 | 620 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Magnolia Warbler | 2 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 American Robin | 2 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Common Yellowthroat | 3 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Ovenbird | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 White-throated Sparrow | 2 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Yellow-bellied Flycatcher | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Chestnut-sided Warbler | 1 |

| | | | | | |
|----------------------|----------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Palm Warbler | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Blue Jay | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Gray Jay | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Yellow-bellied Flycatcher | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Hermit Thrush | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Northern Flicker | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Common Raven | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count MS9 | 29 | 5 | 632 Red-breasted Nuthatch | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Ovenbird | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 American Redstart | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Black and White Warbler | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Northern Parula | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Magnolia Warbler | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Winter Wren | 1 |
| MacKenzie Settlement | Transect to MS53 | 29 | 5 | 648 Unknown Woodpecker | 1 |
| MacKenzie Settlement | Migration count MS53 | 29 | 5 | 657 Winter Wren | 1 |

| | | | | | | |
|----------------------|-----------------|---------------------|----|---|-------------------------------------|---|
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | Blackburnian 657 Warbler | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Ovenbird | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 American Robin | 2 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | Black-throated 657 Green Warbler | 2 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | Golden-crowned 657 Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Dark-eyed Junco | 2 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | Black-throated Bluel 657 Warbler | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Northern Parula | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 American Redstart | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | Yellow-rumped 657 Warbler | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Least Flycatcher | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | 657 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count | MS53 | 29 | 5 | Black-throated 657 Green Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | 708 Magnolia Warbler | 2 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | Black-throated 708 Green Warbler | 4 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | Black-capped 708 Chickadee | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | 708 Northern Parula | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | Golden-crowned 708 Kinglet | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | 708 Swainson's Thrush | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | 708 Ovenbird | 2 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | Black-throated Bluel 708 Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | Yellow-rumped 708 Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | 708 American Redstart | 1 |

| | | | | | | |
|----------------------|-----------------|------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | 708 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Transect count | Transect to Lake | 29 | 5 | 708 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Ovenbird | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Blackpoll Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Ring-necked Duck | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Swamp Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Ovenbird | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Magnolia Warbler Common | 2 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Yellowthroat | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Swamp Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 American Robin | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Song Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Lincoln's Sparrow | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 Ring-necked Pheasant | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 American Robin | 1 |
| MacKenzie Settlement | Migration count | LAKE | 29 | 5 | 719 American Redstart | 1 |

| | | | | | | |
|----------------------|-----------------|-----------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Hermet Thrush | 1 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Yellow-rumped Warbler | 2 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Black-throated Green Warbler | 5 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 American Robin | 2 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Bay-breasted Warbler | 2 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Purple Finch | 1 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Magnolia Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Common Yellowthroat | 1 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Ovenbird | 2 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Song Sparrow | 1 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 American Redstart | 2 |
| MacKenzie Settlement | Transect count | Transect to MS5 | 29 | 5 | 730 Common Raven | 5 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Magnolia Warbler | 2 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Ovenbird | 2 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 American Robin | 2 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Hermet Thrush | 1 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Ovenbird | 2 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Purple Finch | 1 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Ruffed Grouse | 1 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Common Raven | 1 |

| | | | | | | |
|----------------------|-----------------|----------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count | MS5 | 29 | 5 | 800 Common Raven | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 29 | 5 | 811 Ovenbird | 3 |
| MacKenzie Settlement | Transect count | Transect to 54 | 29 | 5 | 811 Magnolia Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 29 | 5 | 811 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Transect count | Transect to 54 | 29 | 5 | 811 Dark-eyed Junco Bay-breasted | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Warbler | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Ovenbird | 2 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Purple Finch | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Ovenbird | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 American Robin | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 White-throated Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Migration count | MS54 | 29 | 5 | 816 Common Raven | 2 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Red-tailed Hawk | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Savannah Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Song Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Northern Waterthrush | 2 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 White-throated Sparrow | 2 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Yellow-rumped Warbler | 1 |

| | | | | | | |
|----------------------|-----------------|------------------------|----|---|-----------------------|---|
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Northern Warbler | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | Red-breasted | |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Nuthatch | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | Common | |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Yellowthroat | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Common Raven | 6 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 American Crow | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | Black-throated | |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Green Warbler | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | White-throated | |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS55 | 29 | 5 | 859 Northern Flicker | 1 |
| MacKenzie Settlement | Migration count | MS55 Drive | 29 | 5 | 859 American Robin | 1 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 American Redstart | 2 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Magnolia Warbler | 2 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Dark-eyed Junco | 2 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | Yellow-bellied Sap | |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Sucker | 1 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | Black-capped | |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Chickadee | 1 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | Northern | |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Waterthrush | 1 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | Chestnut-sided | |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Warbler | 1 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | Common | |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Yellowthroat | 3 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | Blackburnian | |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Warbler | 2 |
| MacKenzie Settlement | Transect count | MS13 Drive transect to | 29 | 5 | 910 Purple Finch | 1 |

| | | | | | | |
|----------------------|-----------------|------------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 Black and White Warbler | 2 |
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 Canada Warbler | 1 |
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 Black-throated Green Warbler | 4 |
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 American Robin | 1 |
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 Northern Parula | 2 |
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 Blackpoll Warbler | 2 |
| MacKenzie Settlement | Transect count | Drive transect to MS13 | 29 | 5 | 910 Swamp Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 American Robin | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Black and White Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Savannah Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Swainson's Thrush | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Northern Waterthrush | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 American Robin | 4 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Magnolia Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Common Grackle | 3 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Northern Parula | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Common Yellowthroat | 1 |

| | | | | | | |
|----------------------|-----------------|------|----|---|----------------------------------|---|
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Least Flycatcher | 2 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Winter Wren | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Purple Finch | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 American Redstart | 2 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Dark-eyed Junco | 2 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Song Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Swamp Sparrow | 1 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Common Raven | 3 |
| MacKenzie Settlement | Migration count | MS13 | 29 | 5 | 913 Yellow-bellied Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Magnolia Warbler | 2 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Hermit Thrush | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Winter Wren | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Hermit Thrush | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Least Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird | MS3 | 9 | 6 | 452 American Crow | 1 |

| | | | | | | |
|----------------------|---------------------------|------|---|---|------------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Ovenbird | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Magnolia Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 American Redstart | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Alder Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Dark-eyed Junco White-throated | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Ovenbird | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Winter Wren | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Hermit Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Blue Jay | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 American Crow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 9 | 6 | 508 Ring-necked Pheasant | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Ruffed Grouse | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Black-capped Chickadee | 1 |

| | | | | | | |
|----------------------|---------------------------|------|---|---|--------------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Red-eyed Vireo Bay-breasted | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Ovenbird Ruby-crowned | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Kinglet Common | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 American Crow Unknown | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Woodpecker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 9 | 6 | 522 Cedar Waxwing | 3 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Blue-headed Vireo Black-throated | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Swainson's Thrush Blackburnian | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Northern Parula Yellow-bellied | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Magnolia Warbler Black-capped | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Hermit Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 American Robin | 1 |

| | | | | | | |
|----------------------|---------------------------|------|---|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Common Raven | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Common Grackle | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 9 | 6 | 535 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Common Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Alder Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Northern Parula | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Yellow-bellied Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Hermit Thrush | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 American Redstart | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Hairy Woodpecker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Swamp Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Blackburnian Warbler | 1 |

| | | | | | | |
|----------------------|---------------------------|------|---|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 9 | 6 | 550 American Robin | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Canada Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 NASH | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Hermet Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Mourning Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Red-eyed Vireo | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Yellow-bellied Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Swainson's Thrush | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Winter Wren | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Hermet Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Unknown | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Woodpecker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 9 | 6 | 607 Common Raven | 2 |

| | | | | | | |
|----------------------|------------------------------|----------------|---|---|-------------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Mourning Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Lincoln's Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Red-eyed Vireo Common | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Yellowthroat | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Alder Flycatcher Black-throated | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Green Warbler Black and White | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Warbler Black-capped | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Hermit Thrush White-throated | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Hermit Thrush | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Alder Flycatcher Common | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Magnolia Warbler Eastern Wood | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Peewee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Blue Jay Chestnut-sided | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 American Crow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 9 | 6 | 622 Common Raven | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 53 | 9 | 6 | 635 Ovenbird | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 53 | 9 | 6 | 635 American Redstart | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 53 | 9 | 6 | 635 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 53 | 9 | 6 | 635 Black-throated Green Warbler | 1 |

| | | | | | | | |
|----------------------|----------------|------------------|---|---|--------------------------------------|--|---|
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to 53 | 9 | 6 | Black-throated Blueel 635 Warbler | | 1 |
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to 53 | 9 | 6 | 635 Mourning Warbler | | 1 |
| | Breeding Bird | | | | Blackburnian | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Warbler | | 1 |
| | Breeding Bird | | | | Black-throated | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Green Warbler | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Northern Parula | | 1 |
| | Breeding Bird | | | | Yellow-rumped | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Warbler | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Blue-headed Vireo | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 American Robin | | 1 |
| | Breeding Bird | | | | Yellow-bellied | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Flycatcher | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Hermet Thrush | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Red-eyed Vireo | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Winter Wren | | 1 |
| | Breeding Bird | | | | Golden-crowned | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Kinglet | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Magnolia Warbler | | 1 |
| | Breeding Bird | | | | | | |
| Mackenzie Settlement | Point Count | MS53 | 9 | 6 | 647 Cedar Waxwing | | 1 |
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | Black-throated 658 Green Warbler | | 2 |
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | 658 Magnolia Warbler | | 1 |
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | 658 Winter Wren | | 1 |
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | 658 Ovenbird | | 2 |
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | 658 Hermet Thrush | | 1 |
| | Breeding bird | | | | | | |
| Mackenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | Yellow-rumped 658 Warbler | | 1 |

| | | | | | | | |
|----------------------|---------------------------|------------------|---|---|----------------------------------|--|---|
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | 658 Black-capped Chickadee | | 2 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | 658 Ruby-throated Hummingbird | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to Lake | 9 | 6 | 658 Swainson's Thrush | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Hairy Woodpecker | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Yellow-rumped Warbler | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Winter Wren | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Common Yellowthroat | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Black-throated Green Warbler | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Mourning Warbler | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Black and White Warbler | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Magnolia Warbler | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Ovenbird | | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Song Sparrow | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Yellow-bellied Sapsucker | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Sucker | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Red-eyed Vireo | | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 American Robin | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Lincoln's Sparrow | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Swainson's Thrush | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 White-throated Sparrow | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 9 | 6 | 707 Swamp Sparrow | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS5 | 9 | 6 | 745 Hermit Thrush | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS5 | 9 | 6 | 745 Common Yellowthroat | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS5 | 9 | 6 | 745 Dark-eyed Junco | | 1 |

| | | | | | | |
|----------------------|---------------------------------|-----------------|---|---|----------------------------------|---|
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 American Robin | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Magnolia Warbler | 3 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 American Redstart | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 American Goldfinch | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Blue Jay | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Common Raven | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS5 | 9 | 6 | 745 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Red-eyed Vireo | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Hermet Thrush | 1 |

| | | | | | | |
|----------------------|---------------------------|----------------|---|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Common Raven | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 9 | 6 | 754 Cedar Waxwing | 1 |
| MacKenzie Settlement | Transect Count | Transect to 54 | 9 | 6 | 805 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Transect Count | Transect to 54 | 9 | 6 | 805 Ovenbird | 1 |
| MacKenzie Settlement | Transect Count | Transect to 54 | 9 | 6 | 805 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Yellow-bellied Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Red-breasted Nuthatch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 Common Raven | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 9 | 6 | 809 American Crow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Savannah Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 American Robin | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Dark-eyed Junco | 1 |

| | | | | | | |
|----------------------|-----------------------------------------|------|---|---|-------------------------------|----|
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Common Yellowthroat | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Northern Parula | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Dark-eyed Junco | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Blue-headed Vireo | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Alder Flycatcher | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Yellow-rumped Warbler | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Song Sparrow | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Common Raven | 25 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Ruby-crowned Kinglet | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Yellow-bellied Flycatcher | 2 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 White-throated Sparrow | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Hermit Thrush | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Northern Warbler | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Northern Flicker | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 American Redstart | |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 White-throated Sparrow | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 American Crow | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Swainson's Thrush | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Purple Finch | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 American Goldfinch | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS55 | 9 | 6 | 850 Cedar Waxwing | 2 |
| Mackenzie Settlement | Breeding bird driving transect to Count | 13 | 9 | 6 | 901 Yellow-bellied Flycatcher | 1 |
| Mackenzie Settlement | Breeding bird driving transect to Count | 13 | 9 | 6 | 901 Bay-breasted Warbler | 1 |
| Mackenzie Settlement | Breeding bird driving transect to Count | 13 | 9 | 6 | 901 American Redstart | 2 |

| | | | | | | |
|----------------------|------------------------------------|------------------------------|---|---|----------------------------------|---|
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Northern Parula | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Song Sparrow | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Magnolia Warbler | 3 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Northern Waterthrush | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Blue Jay | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Canada Warbler | 2 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Red-breasted Nuthatch | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Purple Finch | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Swamp Sparrow | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 American Goldfinch | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 American Robin | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Mourning Warbler | 1 |

| | | | | | | |
|----------------------|------------------------------------|------------------------------|---|---|-------------------------------------|----|
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | Ruby-crowned 901 Kinglet | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | 901 Boreal Chickadee | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | driving transect to 13 | 9 | 6 | Black-capped 901 Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 American Robin | 5 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Song Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Alder Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | Yellow-rumped 914 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | Common 914 Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Swamp Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | Black-throated 914 Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | Blackburnian 914 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | White-throated 914 Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | Black-capped 914 Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Blue Jay | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | Ruby-crowned 914 Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Boreal Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Common Raven | 35 |

| | | | | | | |
|----------------------|---------------------------|------|----|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 9 | 6 | 914 Cedar Waxwing | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Magnolia Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Common Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Winter Wren | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 American Robin | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Hermit Thrush | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 American Robin | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Common Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Swamp Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Northern Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS3 | 28 | 6 | 456 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Ovenbird | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Northern Parula | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 White-throated Sparrow | 1 |

| | | | | | | |
|----------------------|---------------------------|------|----|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Hermet Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 American Redstart | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS4 | 28 | 6 | 509 Common Raven | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Ovenbird | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Hermet Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Hairy Woodpecker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Black-throated Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Common Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Hermet Thrush | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Blackburnian Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Common Raven | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS51 | 28 | 6 | 523 Northern Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Dark-eyed Junco | 1 |

| | | | | | | |
|----------------------|---------------------------|------|----|---|------------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Hairy Woodpecker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Blackburnian Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Dark-eyed Junco White-throated | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Winter Wren | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS6 | 28 | 6 | 535 Pine Siskin Black-throated | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Hermet Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Dark-eyed Junco Common | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Northern Parula Ruby-throated | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Hummingbird White-throated | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Sparrow Yellow-rumped | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Warbler Yellow-bellied | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Hermet Thrush | 1 |

| | | | | | | |
|----------------------|---------------------------|------|----|---|-----------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Winter Wren | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Swamp Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Mourning Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Northern Flicker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Common Grackle | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS7N | 28 | 6 | 547 Woodpecker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 American Robin | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Winter Wren | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 American Robin | 1 |

| | | | | | | |
|----------------------|---------------------------|-----|----|---|-------------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Northern Parula | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Hermet Thrush | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS8 | 28 | 6 | 603 Northern Flicker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Mourning Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Alder Flycatcher | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Red-eyed Vireo | 3 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | Black-throated 615 Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | Yellow-bellied 615 Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Song Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 American Redstart | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | Black-throated 615 Green Warbler | |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | Chestnut-sided 615 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | Common 615 Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | White-throated 615 Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Northern Parula | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | Ruby-crowned 615 Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Hermet Thrush | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 American Crow | 3 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Common Raven | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Blue Jay | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Winter Wren | 1 |

| | | | | | | |
|----------------------|------------------------------|------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS9 | 28 | 6 | 615 Northern Flicker | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | Bay-breasted 631 Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | 631 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | Black-throated 631 Green Warbler | 2 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | 631 Ovenbird | 2 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | 631 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | 631 American Redstart | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | Golden-crowned 631 Kinglet | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | 631 Winter Wren | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS53 | 28 | 6 | 631 Hermet Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Transect Count | Transect to MS53 | 28 | 6 | Yellow-rumped 631 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | 640 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | Black-throated Bluel 640 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | 640 Northern Parula | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | 640 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | Black-throated 640 Green Warbler | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | Blackburnian 640 Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | 640 Barred Owl | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | Black-throated 640 Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | Yellow-bellied 640 Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | Golden-crowned 640 Kinglet | 1 |

| | | | | | | |
|----------------------|------------------------------|------------------|----|---|-----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS53 | 28 | 6 | 640 American Robin | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Northern Parula | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Black-throated Blueel Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Ovenbird | 3 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Gray Jay | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Yellow-bellied Sap Sucker | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Winter Wren | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Eastern Wood Peewee | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 Black and White Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to Lake | 28 | 6 | 651 American Crow | 1 |
| MacKenzie Settlement | Breeding Bird Transect Count | Transect to Lake | 28 | 6 | 651 Hermet Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Golden-crowned Kinglet | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Black-throated Green Warbler | 1 |

| | | | | | | |
|----------------------|------------------------------|---------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Hermit Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Sparrow | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Mourning Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Northern Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Swamp Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 American Crow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Northern Flicker | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Song Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Unknown Duck | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Common Grackle | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | Lake | 28 | 6 | 703 Common Raven | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 5 | 28 | 6 | 736 American Robin | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 5 | 28 | 6 | 736 Black-throated Green Warbler | 3 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 5 | 28 | 6 | 736 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 5 | 28 | 6 | 736 Common Yellowthroat | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 5 | 28 | 6 | 736 Ovenbird | 2 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 5 | 28 | 6 | 736 Dark-eyed Junco | 1 |

| | | | | | | | |
|----------------------|---------------------------|---------------|----|---|----------------------------------|--|---|
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Yellow-rumped Warbler | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Black-capped Chickadee | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Black-throated Green Warbler | | 2 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Song Sparrow | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Yellow-rumped Warbler | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Ruby-crowned Kinglet | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 White-throated Sparrow | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Red-eyed Vireo | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Winter Wren | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 American Redstart | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Common Raven | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Swainson's Thrush | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to 5 | 28 | 6 | 736 Cedar Waxwing | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Red-eyed Vireo | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Black-throated Green Warbler | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Ovenbird | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Black-capped Chickadee | | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 American Robin | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Yellow-rumped Warbler | | 1 |

| | | | | | | |
|----------------------|------------------------------|----------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Common Raven | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS5 | 28 | 6 | 746 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 54 | 28 | 6 | 757 Ovenbird | 2 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 54 | 28 | 6 | 757 Blue Jay | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 54 | 28 | 6 | 757 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 54 | 28 | 6 | 757 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to 54 | 28 | 6 | 757 Golden-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Transect Count | Transect to 54 | 28 | 6 | 757 American Crow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Purple Finch | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Ovenbird | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Black-capped Chickadee | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Red-eyed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 Common Raven | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS54 | 28 | 6 | 803 American Crow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Common Yellowthroat | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Blue-headed Vireo | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Red-breasted Nuthatch | 1 |

| | | | | | | |
|----------------------|------------------------------|------------------|----|---|----------------------------------|---|
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Magnolia Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Northern Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Song Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Savannah Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 American Robin | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Yellow-rumped Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Alder Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Mourning Dove | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Swainson's Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Hermit Thrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Ruby-crowned Kinglet | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Olive-sided Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Northern Parula | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Northern Waterthrush | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Black-throated Green Warbler | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Dark-eyed Junco | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Olive-sided Flycatcher | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 Common Raven | 2 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 White-throated Sparrow | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS55 | 28 | 6 | 841 American Crow | 2 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS13 | 28 | 6 | 852 Bay-breasted Warbler | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS13 | 28 | 6 | 852 Black-capped Chickadee | 1 |
| MacKenzie Settlement | Breeding bird Transect Count | Transect to MS13 | 28 | 6 | 852 Black and White Warbler | 1 |

| | | | | | | | |
|----------------------|---------------------------|------------------|----|---|----------------------------------|--|---|
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 Mallard | | 3 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 Alder Flycatcher | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 American Robin | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | Common 852 Yellowthroat | | 3 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 Hermet Thrush | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | Black-throated 852 Green Warbler | | 2 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 Ovenbird | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | White-throated 852 Sparrow | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 Mourning Warbler | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | Yellow-bellied 852 Flycatcher | | 2 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 Blue-headed Vireo | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | White-throated 852 Sparrow | | 1 |
| | Breeding bird | | | | | | |
| MacKenzie Settlement | Transect Count | Transect to MS13 | 28 | 6 | 852 Northern Harrier | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 American Robin | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | Common 906 Yellowthroat | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Hermet Thrush | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Song Sparrow | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Savannah Sparrow | | 1 |
| MacKenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Alder Flycatcher | | 1 |

| | | | | | | |
|----------------------|---------------------------|------|----|---|----------------------------------|---|
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Red-eyed Vireo | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Common Raven | 2 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Hermit Thrush | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Northern Parula | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Black-throated Green Warbler | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Canada Warbler | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Dark-eyed Junco | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Blue-headed Vireo | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Common Raven | 2 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Swainson's Thrush | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Black-throated Green Warbler | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Ruby-crowned Kinglet | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Yellow-rumped Warbler | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 Magnolia Warbler | 1 |
| Mackenzie Settlement | Breeding Bird Point Count | MS13 | 28 | 6 | 906 American Crow | 1 |

American Black Duck
Hooded Merganser
Ruffed Grouse
Bald Eagle
Sharp-shinned hawk
Red-tailed Hawk
Barred Owl
Belted Kingfisher
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
American Kestrel
Merlin
Blue-headed Vireo
Red-eyed Vireo
Gray Jay
Blue Jay
American Crow
Common Raven
Black-capped Chickadee
Boreal Chickadee
Red-breasted Nuthatch
Brown Creeper
Winter Wren
Golden-crowned Kinglet
Ruby-crowned Kinglet
Swainson's Thrush
Hermit Thrush
American Robin
American Pipit
European Starling
Cedar Waxwing
Ovenbird
Black and White Warbler
Common Yellowthroat
American Redstart
Cape May Warbler
Northern Parula
Magnolia Warbler
Blackpoll Warbler
Palm Warbler
Yellow-rumped Warbler
Black-throated Green Warbler
Canada Warbler
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow
Swamp Sparrow
White-throated Sparrow
Dark-eyed Junco
Common Grackle

Purple Finch
Pine Siskin
American Goldfinch
Evening Grosbeak

| | | | | | |
|----------------|------------------|---|----|------|------|
| Fall Migration | Lake | 6 | 10 | 2014 | 925 |
| Fall Migration | Lake | 6 | 10 | 2014 | 925 |
| Fall Migration | Transect to MS5 | 6 | 10 | 2014 | 955 |
| Fall Migration | Transect to MS5 | 6 | 10 | 2014 | 955 |
| Fall Migration | MS5 | 6 | 10 | 2014 | 1003 |
| Fall Migration | MS5 | 6 | 10 | 2014 | 1003 |
| Fall Migration | MS5 | 6 | 10 | 2014 | 1003 |
| Fall Migration | Transect to 54 | 6 | 10 | 2014 | 1013 |
| Fall Migration | Transect to 54 | 6 | 10 | 2014 | 1013 |
| Fall Migration | MS54 | 6 | 10 | 2014 | 1016 |
| Fall Migration | MS54 | 6 | 10 | 2014 | 1016 |
| Fall Migration | MS54 | 6 | 10 | 2014 | 1016 |
| Fall Migration | MS54 | 6 | 10 | 2014 | 1016 |
| Fall Migration | MS54 | 6 | 10 | 2014 | 1016 |
| Fall Migration | MS54 | 6 | 10 | 2014 | 1016 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | MS55 | 6 | 10 | 2014 | 1050 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | Transect to MS13 | 6 | 10 | 2014 | 1101 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |
| Fall Migration | MS13 | 6 | 10 | 2014 | 1114 |

UNWA= Unidentified warbler
UNWO=Unidentified woodpecker

| species_code | count_0_50m | count_50_100 | count_over_100m | trfly_over | breeding_age |
|--------------|-------------|--------------|-----------------|------------|--------------|
| RBNU | 3 | | | | |
| AMRE | 1 | | | | |
| BTNW | 1 | | | | |
| YRWA | 1 | | | | |
| MAWA | 1 | | | | |
| HETH | | 1 | | | |
| CORA | | | | 2 | |
| GRJA | | | | 1 | |
| AMCR | | | | 1 | |
| AMRO | | | | | 3 |
| BAWW | 1 | | | | |
| REVI | | 1 | | | |
| BTNW | | 1 | | | |
| HETH | | 1 | | | |
| BLJA | | | | 1 | |
| AMCR | | | | | 1 |
| CORA | | | | | 1 |
| BTNW | 1 | | | | |
| BTNW | | 1 | | | |
| REVI | | 2 | | | |
| BTNW | | | | | 2 |
| UNWA | | | | | 1 |
| RBNU | 1 | | | | |
| HAWO | 2 | | | | |
| OVEN | 1 | | | | |
| UNWA | 2 | | | | |
| REVI | | 1 | | | |
| BLJA | | 2 | | | |
| BCCH | | 2 | | | |
| BTNW | | 1 | | | |
| RBNU | | 1 | | | |
| GRJA | | 1 | | | |
| MERL | | | | | 1 |
| COYE | 2 | | | | |
| WTSP | 1 | | | | |
| BLJA | | 1 | | | |
| COYE | | 1 | | | |
| BCCH | | 3 | | | |
| BAWW | | 2 | | | |
| HETH | | 2 | | | |
| AMRO | | 1 | | | |
| BTNW | | 1 | | | |
| BOCH | | 1 | | | |
| AMRO | | | | | 2 |
| AMRO | 1 | | | | |
| BCCH | 4 | | | | |
| YRWA | 1 | | | | |
| GCKI | | 2 | | | |
| HETH | | 3 | | | |
| BAWW | | 1 | | | |
| BOCH | | 2 | | | |

| | | | | |
|------|---|---|---|---|
| DEJU | | 1 | | |
| CORA | | | 1 | |
| UNWO | | | 1 | |
| BLJA | 2 | | | |
| AMRO | 2 | | | |
| BTNW | 3 | | | |
| MAWA | 1 | | | |
| YRWA | | 1 | | |
| BCCH | | 2 | | |
| REVI | | 3 | | |
| WTSP | | 1 | | |
| AMCR | | | 1 | |
| BAEA | | | 1 | |
| CORA | | | 1 | |
| NOFL | | | 1 | |
| AMGO | | | | |
| AMRO | 1 | | | 1 |
| MAWA | 1 | | | |
| HAWO | 1 | | | |
| BCCH | 2 | | | |
| AMGO | | | | 1 |
| BAWW | | 1 | | |
| BTNW | | 1 | | |
| CORA | | | | 2 |
| MAWA | 2 | | | |
| PUFI | | | | 1 |
| REVI | 1 | | | |
| BTNW | 1 | | | |
| BAEA | | 2 | | |
| HOME | | | 9 | |
| NOFL | | | 1 | |
| AMRO | | | 2 | |
| CORA | | | 3 | |
| AMGO | | | | 1 |
| COYE | 1 | | | |
| HETH | 1 | | | |
| BAWW | 1 | | | |
| YRWA | 1 | | | |
| BTNW | 2 | | | |
| MAWA | 1 | | | |
| HETH | 2 | | | |
| RCKI | 1 | | | |
| YRWA | 4 | | | |
| SSHA | 1 | | | |
| OVEN | | 1 | | |
| REVI | | 1 | | |
| BAWW | | 1 | | |
| MAWA | | 1 | | |
| AMCR | | | | |
| CORA | | | | 4 |
| YRWA | 1 | | | |
| RBNU | 2 | | | |

| | | | | |
|------|------------|---|---|----|
| BAWW | 1 | | | |
| BCCH | 5 | | | |
| BTNW | 3 | | | |
| HETH | 1 | | | |
| GCKI | 1 | | | |
| EUST | 500 | | | |
| BLJA | | 1 | | |
| YRWA | | 1 | | |
| SAVS | | 1 | | |
| RTHA | | | 1 | |
| BLJA | | | 2 | |
| CORA | | | | 4 |
| AMCR | | | | 1 |
| COYE | 4 | | | |
| SOSP | 1 | | | |
| BTNW | 1 | | | |
| BCCH | 9 | | | |
| CAWA | 1 | | | |
| GCKI | 1 | | | |
| CORA | | | | 14 |
| SWSP | | | 1 | |
| BTNW | | | 3 | |
| YRWA | | | 2 | |
| BCCH | | | 5 | |
| BHVI | | | 1 | |
| CORA | | | 2 | |
| YRWA | 1 | | | |
| GCKI | 2 | | | |
| BOCH | 1 | | | |
| GRJA | | 1 | | |
| CORA | | | 1 | |
| AMCR | | | 1 | |
| YRWA | | 1 | | |
| CORA | | | | 1 |
| BTNW | 1 | | | |
| CORA | | | | 1 |
| GCKI | 2 | | | |
| BCCH | 3 | | | |
| MAWA | 1 | | | |
| BTNW | 1 | | | |
| BRCR | 1 | | | |
| CORA | | | | 2 |
| GRJA | 1 | | | |
| CORA | | | | 1 |
| AMRO | 1 | | | |
| BCCH | 3 | | | |
| GCKI | 1 | | | |
| YRWA | 1 | | | |
| BOCH | 2 | | | |
| MAWA | 1 | | | |
| PIWO | | 2 | | |
| AMCR | | 1 | | |

| | | | | |
|-------|---|---|---|----|
| BHVI | 1 | | | |
| YRWA | 1 | | | |
| BCCH | 1 | | | |
| HETH | 2 | | | |
| WTSP | 1 | | | |
| PAWA | 2 | | | |
| BLPW | 2 | | | |
| COYE | 2 | | | |
| LISP | 2 | | | |
| BLJA | | 1 | | |
| AMCR | | | 2 | |
| CORA | | | 1 | |
| PUFI | | | | 1 |
| RCKI | | | 1 | |
| AMGO | | | | 1 |
| PUFI | | | | 1 |
| HETH | 1 | | | |
| AMRO | 1 | | | |
| BLJA | 1 | | | |
| BCCH | 3 | | | |
| COYE | 1 | | | |
| BLJA | | 2 | | |
| CORA | | | | 2 |
| BRCR | 1 | | | |
| BEKI | | 1 | | |
| AMGO | | | | 1 |
| GCKI | 1 | | | |
| BAEA | | | 1 | |
| ABDU | | | 2 | |
| CORA | | | | 2 |
| AMGO | | | | 1 |
| YRWA | 3 | | | |
| CMWA | 1 | | | |
| DEJU | 4 | | | |
| RCKI | 1 | | | |
| BOCH | 1 | | | |
| BTNW | 3 | | | |
| HBHVI | 1 | | | |
| GCKI | 1 | | | |
| BCCH | 5 | | | |
| BCCH | 1 | | | |
| MAWA | 1 | | | |
| CORA | | | 1 | |
| CORA | | | | 1 |
| CEDW | | | | 15 |
| BCCH | 6 | | | |
| BAWW | 1 | | | |
| BLPW | 1 | | | |
| NOPA | 1 | | | |
| HETH | 1 | | | |
| DEJU | 1 | | | |
| AMRO | 1 | | | |

| | | | | |
|------|---|---|---|---|
| BDOW | 1 | | | |
| PIWO | 1 | | | |
| BTNW | 2 | | | |
| REVI | 1 | | | |
| GCKI | 2 | | | |
| HETH | | 1 | | |
| COYE | 1 | | | |
| SAVS | 1 | | | |
| AMRO | | 1 | | |
| CORA | | | 1 | |
| AMGO | | | 1 | |
| RTHA | | | | 2 |
| CORA | | | | 2 |
| SWTH | 1 | | | |
| GCKI | 5 | | | |
| BLJA | 1 | | | |
| SOSP | 5 | | | |
| COYE | 1 | | | |
| BTNW | 2 | | | |
| YRWA | 1 | | | |
| WTSP | 8 | | | |
| RCKI | 1 | | | |
| CORA | 3 | | | |
| BOCH | 1 | | | |
| RUGR | 1 | | | |
| AMPI | | 1 | | |
| MAKE | | | 1 | |
| CORA | | | | 1 |
| BCCH | 1 | | | |
| RBNU | 1 | | | |
| YRWA | 2 | | | |
| BLJA | 2 | | | |
| HETH | 1 | | | |
| BDOW | | | 1 | |
| AMCR | | | | 2 |
| CORA | | | | 9 |
| PISI | | | | 1 |
| GCKI | | 2 | | |
| YRWA | | 1 | | |
| AMCR | | | 1 | |
| CORA | | | 1 | |
| PISI | | | | 2 |
| BLPW | 1 | | | 1 |
| DEJU | 5 | | | |
| GCKI | 1 | | | |
| YRWA | 1 | | | |
| CORA | | | 2 | |
| PIWO | | | 1 | |
| YRWA | | | | 2 |
| PISI | | | | 2 |
| DEJU | 1 | | | |
| RBNU | 2 | | | |

| | | | | | |
|------|---|---|---|----|----------|
| CORA | 1 | | | | |
| PUFI | | | 1 | | |
| CORA | | | 1 | | |
| AMRO | | | | 2 | |
| YRWA | | | | 2 | |
| BCCH | | 6 | | | |
| DEJU | | 2 | | | |
| BLPW | | 1 | | | |
| YRWA | | 3 | | | |
| HETH | | 2 | | | |
| CORA | | | 1 | | |
| WTSP | | | 1 | | |
| BLJA | | | 1 | | |
| PUFI | | | | 2 | |
| YRWA | | | | 1 | |
| PISI | | | | 2 | |
| DEJU | 1 | | | | |
| BOCH | 3 | | | | |
| BCCH | 1 | | | | |
| GCKI | 3 | | | | |
| YRWA | 1 | | | | |
| HAWO | | 1 | | | |
| CORA | | | 1 | | |
| PUFI | | | | 1 | |
| YRWA | | | | 1 | |
| DEJU | 3 | | | | |
| YRWA | | 3 | | | |
| BCCH | | 4 | | | |
| RBNU | | 1 | | | |
| WTSP | | 1 | | | |
| BLPW | | 1 | | | |
| AMCR | | | 1 | | |
| RUGR | | | 1 | | |
| PUFI | | | | 2 | |
| GRJA | 1 | | | | |
| YRWA | 2 | | | | |
| DOWO | 1 | | | | |
| AMGO | | | | 1 | |
| DEJU | 1 | | | | |
| GCKI | | 2 | | | |
| CORA | | | 1 | | |
| COGR | | | | 20 | |
| BLPW | 1 | | | | |
| WIWR | 1 | | | | |
| YRWA | | 2 | | | |
| BAEA | | 1 | | | IMMATURE |
| HAWO | | 1 | | | |
| PUFI | | | 1 | | |
| PISI | | | 2 | | |
| GRJA | | | 1 | | |
| BCCH | | | 2 | | |
| BAEA | | | | 1 | ADULT |

| | | | | | | |
|------|---|---|--|---|---|-------|
| CORA | | | | | 1 | |
| PISI | | | | | 1 | |
| YRWA | 1 | | | | | |
| BDOW | | | | 1 | | |
| YRWA | 2 | | | | | |
| GCKI | 1 | | | | | |
| BLJA | | 1 | | | | |
| AMRO | 1 | | | | | |
| YRWA | | 1 | | | | |
| GCKI | 3 | | | | | |
| YRWA | 4 | | | | | |
| BCCH | 2 | | | | | |
| BLPW | 1 | | | | | |
| AMRO | 1 | | | | | |
| AMGO | | | | | | 1 |
| SWSP | 1 | | | | | |
| SAVS | 1 | | | | | |
| YRWA | | 3 | | | | |
| BCCH | | 1 | | | | |
| SOSP | | 1 | | | | |
| PAWA | | 2 | | | | |
| CORA | | | | 1 | | |
| HAWO | | | | 1 | | |
| BLJA | | | | 1 | | |
| PUFI | | | | 1 | | |
| BLJA | 1 | | | | | |
| BOCH | 2 | | | | | |
| SWSP | 1 | | | | | |
| WTSP | 3 | | | | | |
| YRWA | 2 | | | | | |
| BCCH | 2 | | | | | |
| GCKI | 1 | | | | | |
| CORA | 1 | | | | | |
| AMRO | 2 | | | | | |
| SAVS | 3 | | | | | |
| RTHA | 1 | | | | | |
| DEJU | 1 | | | | | |
| AMGO | 1 | | | | | |
| SOSP | 1 | | | | | |
| SWSP | 1 | | | | | |
| AMRO | | 1 | | | | |
| YRWA | | 3 | | | | |
| AMKE | | | | 1 | | |
| CORA | | | | 2 | | |
| YRWA | | | | 2 | | |
| BAEA | | | | | 1 | ADULT |

sex behaviour height_class num_passes direction_f distance_f direction_from_observer

Still singing

**PASSAGE COUNTS
MACKENZIE SETTLEMENT
FALL 2014**

Passage Counts were done on five occasions in the proposed MacKenzie Settlement windmill site in the fall of 2014. The area of the quarry on 7219 Rd. (45.48238N -63.03160W) provided a good observation point in all directions. A total of 346 minutes were spent doing passage counts on days with predicted winds from the north. Counts were done after each of three days of fall migration surveys and two other days were also selected for an earlier start to counts. No counts were done after 13:00.

In general, the area of the quarry was somewhat quiet for passage movement of birds on the days and times selected. Most of the observations were local birds and the majority were near the Balefill which is 3-4 Km south of the quarry. At the Balefill, Herring and Great Black-backed Gulls as well as American Crow, Common Ravens and European Starlings were numerous. A quick count in the early afternoon on September 13 had 220 Herring Gulls, 5 Great Black-backed Gulls, 700 European Starlings, 2 Bald Eagles, 1 Red-tailed Hawk and some Rock Pigeons. I did not note the number of Crows and Ravens but they were present.

Many of the Common Ravens in the vicinity of the passage count observation point were travelling from the nearby blueberry fields to the balefill and at times passed over or within 300M. On earlier spring and summer visits, up to 100 Common Ravens were found in nearby blueberry fields.

Thirteen species were noted during passage counts including two gull* species which actually were 3-4 Km away at the balefill. At no times during spring, breeding and fall surveys did I see gulls in the actual study area as they seemed to stay in the vicinity of the balefill and likely were transiting from the Truro area and did not involve a flight over the proposed windmill site. Only two species of raptor were recorded, Bald Eagle and red-tailed Hawk and many of the observations were probably local resident birds. Again most of the observations were Common Ravens.

List of Passage Count Birds MacKenzie Settlement- Fall 2014

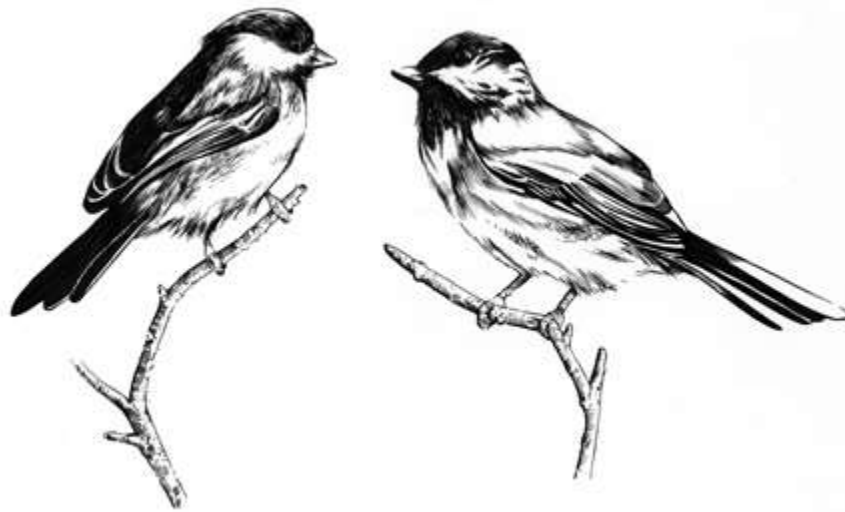
Red-tailed Hawk
Bald Eagle
Northern Flicker
Herring Gull*
Great Black-backed Gull*
Northern Flicker
Gray Jay
Blue Jay
American Crow
Common Raven
European Starling

Yellow-rumped warbler
Purple finch
American Goldfinch

| day | month | year | start_time | species_name | species_code | count | c br age |
|-----|-------|------|------------|-----------------------|--------------|-------|----------|
| 8 | 9 | 2014 | 1130 | Common Raven | CORA | 1 | |
| 8 | 9 | 2014 | | Common Raven | CORA | 1 | |
| 8 | 9 | 2014 | | Red-tailed Hawk | RTHA | 1 | |
| 8 | 9 | 2014 | | Bald Eagle | BAEA | 1 | |
| 8 | 9 | 2014 | 1150 | Common Raven | CORA | 1 | |
| 8 | 9 | 2014 | | Common Raven | CORA | 2 | |
| 8 | 9 | 2014 | | Gray Jay | GRJA | 1 | |
| 8 | 9 | 2014 | | Northern Flicker | NOFL | 2 | |
| 8 | 9 | 2014 | 1230 | Bald Eagle | BAEA | 1 | |
| 8 | 9 | 2014 | | Common Raven | CORA | 1 | |
| 8 | 9 | 2014 | | Common Raven | CORA | 8 | |
| 8 | 9 | 2014 | | Large gulls | Gull species | 120 | |
| 8 | 9 | 2014 | | unknown Warbler | UNWA | 1 | |
| 8 | 9 | 2014 | | Blue Jay | BLJA | 2 | |
| 8 | 9 | 2014 | 1305 | Common Raven | CORA | 15 | |
| 13 | 9 | 2014 | 1020 | unknown warbler | UNWA | 2 | |
| 13 | 9 | 2014 | 1035 | Common Raven | CORA | 1 | |
| 13 | 9 | 2014 | | Common Raven | CORA | 1 | |
| 13 | 9 | 2014 | 1050 | Blue Jay | BLJA | 1 | |
| 13 | 9 | 2014 | 1120 | unknown Warbler | UNWA | 1 | |
| 13 | 9 | 2014 | | Purple Finch | PUFI | 1 | |
| 13 | 9 | 2014 | | European Starling | EUST | 5 | |
| 13 | 9 | 2014 | | Blue Jay | BLJA | 2 | |
| 13 | 9 | 2014 | | American Goldfinch | AMGO | 2 | |
| 13 | 9 | 2014 | | unknown Warbler | UNWA | 1 | |
| 13 | 9 | 2014 | | Common Raven | CORA | 1 | |
| 13 | 9 | 2014 | 1130 | Bald Eagle | BAEA | 2 | |
| 13 | 9 | 2014 | | Common Raven | CORA | 3 | |
| 19 | 9 | 2014 | 1000 | American Crow | AMCR | 2 | |
| 19 | 9 | 2014 | | Bald Eagle | BAEA | 1 | |
| 19 | 9 | 2014 | | Common Raven | CORA | 5 | |
| 19 | 9 | 2014 | | American Crow | AMCR | 1 | |
| 19 | 9 | 2014 | | Gull species | | 100+ | |
| 19 | 9 | 2014 | 1030 | Common Raven | CORA | 1 | |
| 19 | 9 | 2014 | | Common Raven | CORA | 2 | |
| 19 | 9 | 2014 | 1050 | Common Raven | CORA | 1 | |
| 19 | 9 | 2014 | | Common Raven | CORA | 1 | |
| 19 | 9 | 2014 | 1130 | Common Raven | CORA | 3 | |
| 24 | 9 | 2014 | 1215 | Yellow-rumped Warbler | YRWA | 1 | |
| 24 | 9 | 2014 | | unknown Warbler | UNWA | 1 | |
| 24 | 9 | 2014 | 1230 | Common Raven | CORA | 2 | |
| 5 | 10 | 2014 | 1140 | Common Raven | CORA | 1 | |
| 5 | 10 | 2014 | | Common Raven | CORA | 1 | |
| 5 | 10 | 2014 | | Common Raven | CORA | 1 | |
| 5 | 10 | 2014 | 1200 | Bald Eagle | BAEA | 2 | |

| height_class | nu | direction_flight | distance_from_obser | direction_from_observer |
|--------------|----|------------------|---------------------|-------------------------|
| 50-100m | | NW | 300M | W |
| 50-100m | | NW | 300M | W |
| >100M | | SW | 300M | W |
| >100M | | SW | 300M | W |
| 50-100m | | E | 300M | not recorded |
| >100M | | over balefill | 3KM | S |
| 0-10m | | local-landed | 100M | S |
| 0-10m | | local-landed | 100M | S |
| >100m | | S | 3KM | S |
| 50-100m | | S | 300M | E |
| 10-50m | | over balefill | 3KM | S |
| 10-50m | | over balefill | 3KM | S |
| 0-10m | | local-landed | 100M | overhead |
| 0-10m | | W | 100M | E |
| >100M | | S | 200M | overhead |
| 0-10M | | E | 100M | not recorded |
| 50-100M | | N | 100m | E |
| 10-50M | | S | 100m | E |
| 0-10M | | S | 100M | N |
| 10-50m | | N | 100M | overhead |
| 10-50m | | S | 100M | overhead |
| 0-10m | | N | 100M | overhead |
| 0-10m | | N | 100M | overhead |
| 10-50m | | N | 100M | overhead |
| 0-10m | | N | 100M | overhead |
| 50-100m | | N | 300M | not recorded |
| >100m | | over balefill | 3KM | S |
| >100m | | over balefill | 3Km | S |
| 10-50M | | S | 50M | overhead |
| 300M | | W | 300M | S |
| 50-100M | | over balefill | 3Km | S |
| 50-100 M | | S | 300M | S |
| 10-50M | | over balefill | 3Km | S |
| 10-50M | | S | 25M | S |
| 10-50M | | W | 3Km | S |
| 10-50M | | N | 100M | overhead |
| 10-50M | | N | 100M | overhead |
| 10-50M | | N | 100M | overhead |
| 0-10M | | W | 50M | overhead |
| 0-10M | | local-landed | 50M | overhead |
| 50-100M | | not recorded | not recorded | not recorded |
| 50-100M | | S | not recorded | E |
| 10-50M | | S | not recorded | not recorded |
| 10-50M | | N | not recorded | not recorded |
| 10-50M | | N | 300M | N |

**KEMPTOWN, NOVA SCOTIA WIND FARM
BREEDING BIRD SURVEY**



Black Bird Environmental Consulting
863 Beaver Bank Rd.
Beaver Bank, NS
jordanpost@hotmail.ca
chelsea_taylor@live.ca

September, 2013

TABLE OF CONTENTS

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| INTRODUCTION..... | 2 |
| METHODS | 3 |
| RESULTS..... | 7 |
| DISCUSSION..... | 12 |
| Species of Concern | 12 |
| Population Trends | 13 |
| Habitat Types | 13 |
| Supplemental Monitoring..... | 16 |
| CONCLUSION | 16 |
| LITERATURE CITED | 17 |
| APPENDICES..... | 18 |
| Appendix 1. List of species and total counts found throughout the Kemptown wind farm study area, Colchester County, NS. Drawn by Black Bird Environmental Consulting, April 2012-March2013 | 19 |
| Appendix 2. Two week supplemental study done on new Kemptown location, Colchester County, NS. Created by Black Bird Environmental Consulting, June 2013..... | 22 |
| Appendix 3. Tally sheets used throughout the Kemptown wind farm study area, Kempton, Colchester County, NS. Created by Black Bird Environmental Consulting, April 2012-March 2013..... | 27 |

INTRODUCTION

Wind is one of the fastest growing renewable energy sources in the world. It offsets emissions from fossil fuel plants, and encourages a cleaner way of living. Various concerns have been raised on wind turbine effects on wildlife and the environment, particularly on avian and bat species (Canadian Wind Energy Association, 2008). With these concerns in mind, the Nova Scotia Environment Act states that an environmental assessment must be conducted prior to the construction of a wind farm. These types of assessments will cover various elements, such as; wildlife, ecology, botany, and geology.

This report focuses on the avian portion of an environmental study being executed on the Kemptown wind project site in Colchester County, Nova Scotia. This assessment will provide baseline information regarding population estimates of birds, and help to ensure the proposed turbines are not being built in bird migration routes. It will also ensure that there are no endangered or threatened species in the area, and that the Kemptown location is not a common breeding site.

The avian study which was conducted used the area point count method to record species, and numbers of species found throughout the duration of the study. This avian study was conducted over a 52 week period. Area point counts are used to find population abundance as well as species composition within a specific area.

METHODS

The monitoring protocols established in this document were designed using information from two documents published by the Canadian Wildlife Service:

Environment Canada (2006) Recommended Protocols for Monitoring Impacts of Wind Turbines on Birds.

Environment Canada (2006) Wind turbines and birds: A Guidance Document for Environmental Assessment.

On 22 April 2012, Wildlife Technicians began work at the Kemptown survey location in Colchester County, Nova Scotia. Technicians set up an area point count for avian species in the area. This point count survey was part of an environmental assessment being conducted which will be used to determine the population estimate of avian species found in the area, and will also help to determine if three wind turbines will be erected at the Kemptown location.

The survey locations were given to the technicians prior to the set-up of the point count. The coordinates for the three potential sites, as of April 2012, were as follows (All coordinates are UTM zone 20T): Turbine 1 – 0490712E 5032569N, Turbine 2 – 0490903E 5032880N, Turbine 3 -0490612E 5032939N.

Using each of the survey locations as center points, 100 (m) was measured in each cardinal direction, north (0°), east (90°), south (180°) and west (270°). Using these new locations as a center points, four additional points were established 50 (m) away in each cardinal direction and marked with flagging tape. The area within these four points was the monitoring area for each turbine. A total of four points per turbine were established and monitored (Figure 1).

For the following 52 weeks, bird populations were monitored once a week, monitoring would begin 30 minutes before sunrise and would last for approximately 3 – 4 hours. Monitoring would not take place during rainy days, or days with high wind speeds as birds are not active during these types of weather conditions. A total of five minutes was spent monitoring at each point location. During the five minutes, any birds seen or heard within the monitoring location were recorded on tally sheets. Recording would include species of bird, number of birds, and location.

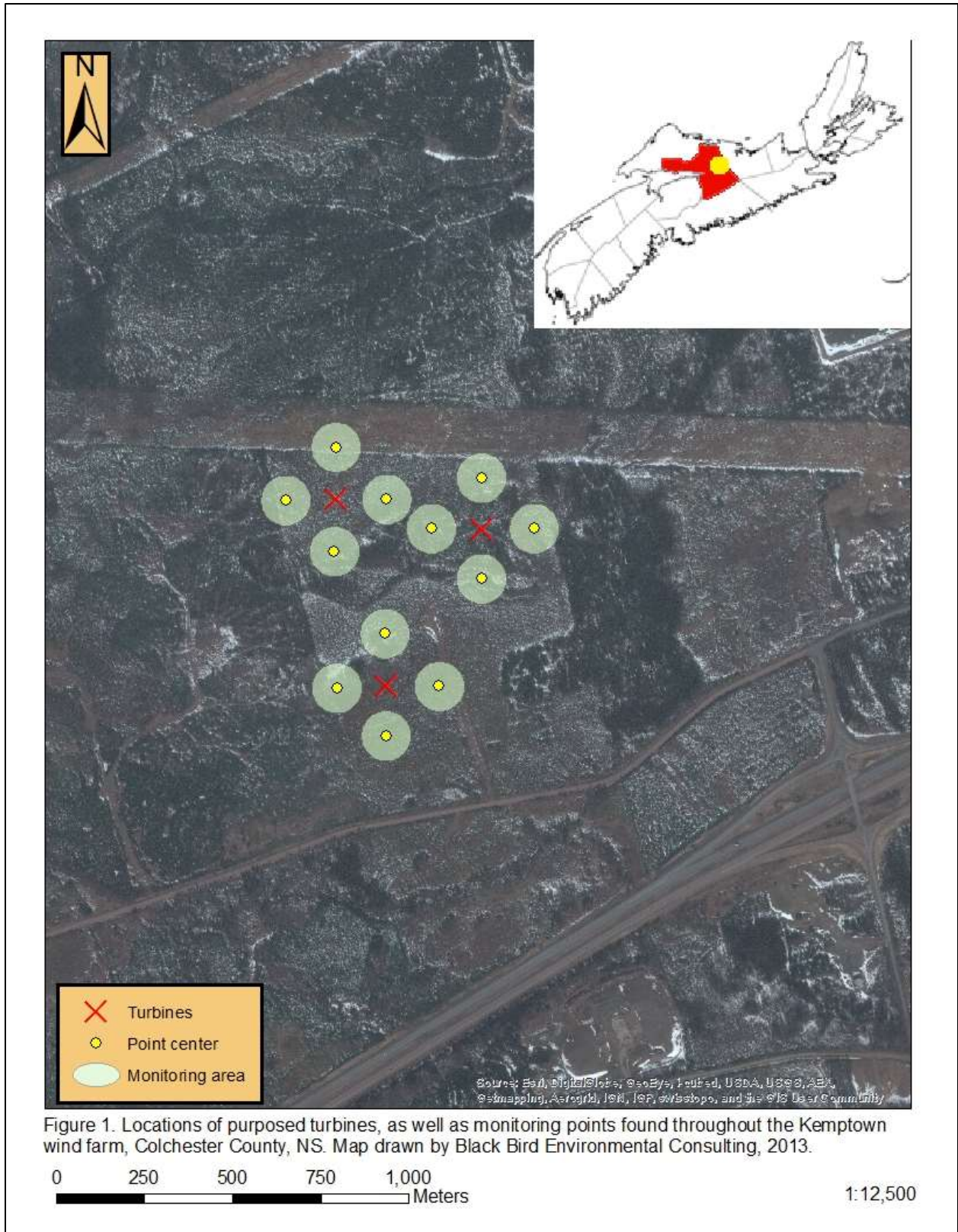


Figure 1. Locations of purposed turbines, as well as monitoring points found throughout the Kemptown wind farm, Colchester County, NS. Map drawn by Black Bird Environmental Consulting, 2013.

RESULTS

Throughout the study of the Kemptown survey location, a total of 39 different bird species were recorded. Within these species, four species were listed as below S5 (Table 1). The Killdeer, Eastern Wood Pewee and Yellow-bellied Flycatcher are listed sub-nationally as S3S4B, while the Boreal Chickadee is listed as S3. All other recorded species are listed by the ACCDC as S5. For a complete list of species and their Sub-national ranks (S-Ranks) found through the duration of the study, refer to Table 2. (Atlantic Canada Conservation Data Centre, 2010).

Table 1. Uncommon species sub-national and global ranks as defined by the Atlantic Canada Conservation Data Centre found throughout the Kemptown survey location, Colchester County, Nova Scotia, data collected by Black Bird Environmental Consulting, April - March, 2012-13.

| UNCOMMON SPECIES | | | |
|---------------------------|-------------------------------|-------------|--------------------|
| Common Name | Scientific Name | Global Rank | Sub-National Ranks |
| Killdeer | <i>Charadrius vociferus</i> | Sensitive | S3S4B |
| Eastern Wood Pewee | <i>Contopus virens</i> | G5 | S3S4B |
| Boreal Chickadee | <i>Poecile hudsonica</i> | G5 | S3 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | G5 | S3S4B |

* **S3B** - Uncommon, or found only in a restricted range, even if abundant at some locations (21 to 100 occurrences), Breeding (Migratory species).

* **S4B** - Usually widespread, fairly common, and apparently secure with many occurrences, but of longer-term concern (100+ occurrences), Breeding (Migratory species).

* **G5** - Very common, secure under present conditions.

Table 2. Complete list of bird species observed during the 52 week study of the Kemptown wind project location, Colchester County, Nova Scotia, data collected by Black Bird Environmental Consulting, April - May 2012-2013.

| COMPLETE SPECIES LIST | | | |
|--------------------------|-------------------------------|--------------|--------------------|
| Common Name | Scientific Name | Global Ranks | Sub-National Ranks |
| American Robin | <i>Turdus migratorius</i> | Secure | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | G5 | S5 |
| Red-winged Blackbird | <i>Agelaius phoeniceus</i> | G5 | S4S5B* |
| Mourning Dove | <i>Zenaida macroura</i> | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | G5 | S4S5 |
| Common Raven | <i>Corvus corax</i> | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | G5 | S5B |
| Killdeer | <i>Charadrius vociferus</i> | G5 | S3S4B |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | G5 | S5 |
| Hairy Woodpecker | <i>Picoides villosus</i> | G5 | S5 |
| Northern Flicker | <i>Colaptes auratus</i> | G5 | S5B |
| Yellow-bellied Sapsucker | <i>phyrapicus varius</i> | G5 | S4S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | G5 | S4S5 |

* **S3B** - Uncommon, or found only in a restricted range, even if abundant at some locations (21 to 100 occurrences), Breeding (Migratory species).

* **S4B** - Usually widespread, fairly common, and apparently secure with many occurrences, but of longer-term concern (100+ occurrences), Breeding (Migratory species).

* **S5B** - Widespread, abundant, and secure, under present conditions, Breeding (Migratory species).

* **G5** - Very common, secure under present conditions.

* **NA** - Not Applicable: A conservation status is not applicable because the species is either: a) exotic, b) not definitively known to occur in the province or c) a hybrid not considered to be conservation significance.

Table 3. Complete list of bird species observed during the 52 week study of the Kemptown survey location, Colchester County, Nova Scotia, data collected by Black Bird Environmental Consulting, April - March 2012-2013.

| COMPLETE SPECIES LIST (CONTINUED) | | | |
|-----------------------------------|---------------------------------|----------------------|--------------------|
| Common Name | Scientific Name | Global Ranks | Sub-National Ranks |
| Golden-crowned Kinglet | <i>Regulus satrapa</i> | Now ranked Sensitive | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | G5 | S5 |
| Boreal Chickadee | <i>Poecile hudsonica</i> | G5 | S3 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | G5 | S3S4B |
| Alder Flycatcher | <i>Empidonax alnorum</i> | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | G5 | S5B |
| American Redstart | <i>Setophaga ruticilla</i> | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | G5 | S5B |
| Ruby-throated Hummingbird | <i>Archilochus colubris</i> | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | G5 | S4S5B |
| American Woodcock | <i>Scolopax minor</i> | G5 | S4S5B |
| Ring-necked Pheasant | <i>Phasianus colchicus</i> | G5 | SNA |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | G5 | S4 |

* **S3B** - Uncommon, or found only in a restricted range, even if abundant at some locations (21 to 100 occurrences), Breeding (Migratory species).

* **S4B** - Usually widespread, fairly common, and apparently secure with many occurrences, but of longer-term concern (100+ occurrences), Breeding (Migratory species).

* **S5B** - Widespread, abundant, and secure, under present conditions, Breeding (Migratory species).

* **G5** - Very common, secure under present conditions.

* **NA** - Not Applicable: A conservation status is not applicable because the species is either: a) exotic, b) not definitively known to occur in the province or c) a hybrid not considered to be conservation significance.

Figure 2 shows the population trends throughout the duration of the study. The highest population count was found during the month of May with approximately 524 birds recorded. The population then drops slightly each month, with the largest drop in population from November at approximately 286 birds, to December at approximately 60 birds. The lowest population count was found during the month of March with approximately 10 birds recorded.

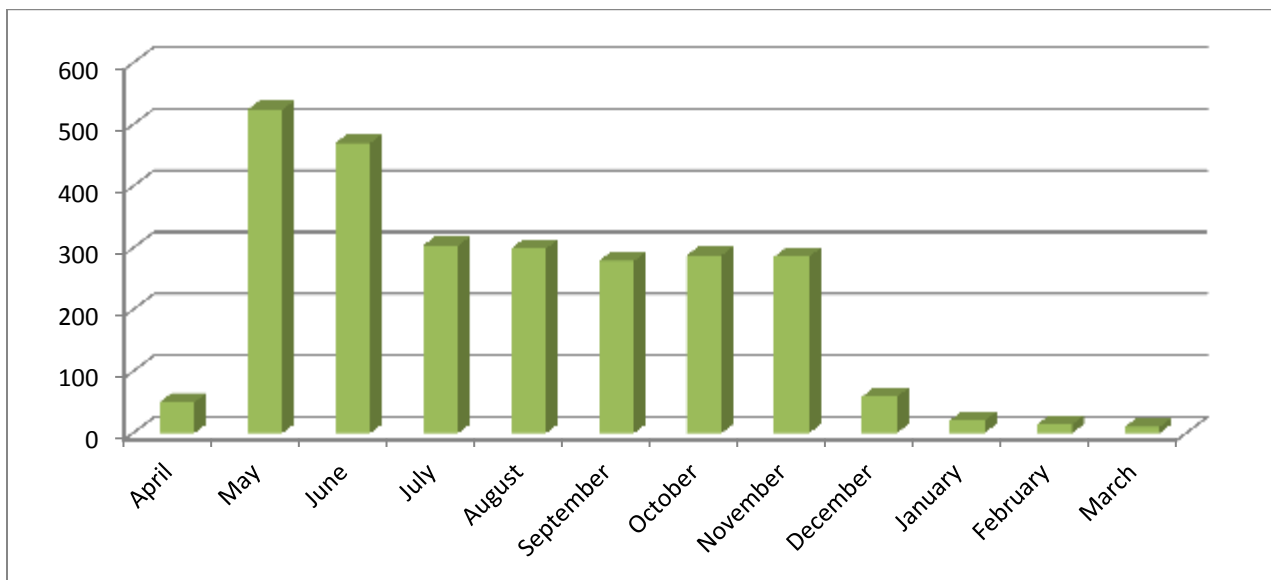


Figure 2. Total bird counts found during the study of the 52 week Kempton survey location, Colchester County, Nova Scotia, data collected by Black Bird Environmental Consulting, April – March 2012-2013.

Five different habitat types were observed within the Kemptown study area; immature mixedwood, mature hardwood, immature softwood, a treed bog area, and an open grass area (power line corridor). Total bird count percentages were highest in the openfield habitat type with approximately 32% of the total count found within this habitat. The lowest percentage of the bird count was found within the bog habitat with approximately 9% of the total birds recorded. The immature mixedwood habitat contained 26% of the population recorded, where the mature hardwood habitat contained 17%, and the immature softwood habitat contained 16%.

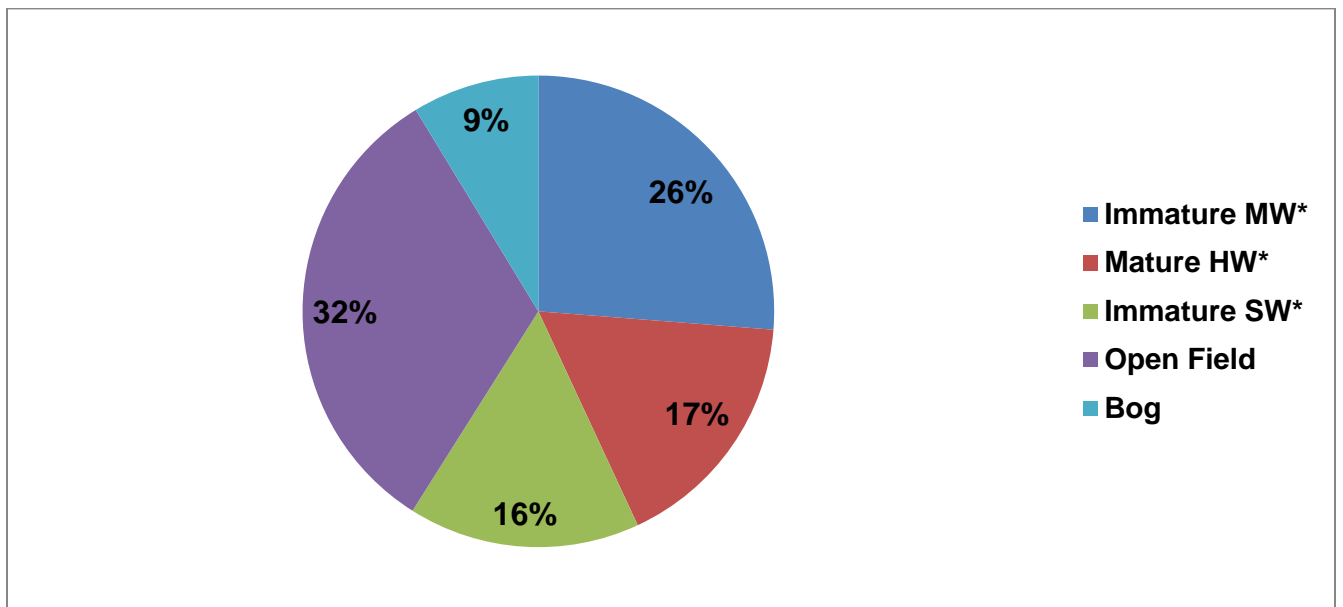


Figure 3. Percentage of total birds recorded throughout five habitat types found within the Kemptown survey location, Colchester County, Nova Scotia, data collected by Black Bird Environmental Consulting, April - March, 2012-2013.

- * HW- Hardwood
- * SW – Softwood
- * MW - Mixedwood

DISCUSSION

SPECIES OF CONCERN

During the study at the Kemptown survey location, 39 avian species were observed. With the exception of four species, all other species are considered secure by NSDNR. These had an S-Rank of S5 which is defined by the ACCDC as: Widespread, abundant, and secure, under present conditions. This is the highest possible S-Rank and therefore these species are not threatened by the construction of wind turbines on this site. The Eastern Wood Pewee (*Contopus virens*), Killdeer (*Charadrius vociferous*) and the Yellow-bellied Flycatcher (*Empidonax flaviventris*) have a NSDNR ranking as Sensitive: enhanced watch list but not yet at risk. Eastern Wood Pewee has a COSEWIC ranking as Special Concern but no rankings for the other two. All share an ACCDC S-Rank of S3S4B. S4: usually widespread, fairly common, and apparently secure with many occurrences, but of longer-term concern (100+ occurrences). S3: uncommon, or found only in a restricted range, even if abundant at some locations (21 to 100 occurrences). The eastern wood pewee breeds in about every type of wooded habitat, and will use both deciduous and coniferous forest. It is often associated with forest clearings and edges all of which are present throughout this study area. The killdeer can be found in open grasslands, wetlands, fields, croplands and pastures, and short-grass prairies. They are often found on sandbars, mudflats and pastures. The wet bog habitat found throughout this study area is where the killdeer was observed, but this area does not have the potential to be impacted by the roads or turbine lay out areas for the Project. Yellow-Bellied Flycatcher breeds in boreal

coniferous forests and nests in cool, moist forests, bogs and swamps, again not to be impacted by the Project. They winter in a variety of habitats from forests to semi-open habitats. The Boreal Chickadee (*Poecile hudsonica*) had an S-rank of S3. This species will use both young and mature forests, as long as they are nominated with evergreens. Their ability to use both mature and younger forests helps the Boreal Chickadees withstand the effects of logging and other effects within their range. Although these species are not at a critical level of risk, pressure on this species may push these ranks down and result in further diminishing these populations.

POPULATION TRENDS

The migration period of birds found throughout Atlantic Canada can extend over several months; however, population increases dramatically during May and June, this coincides with the breeding season of most native species. It is extremely difficult to predict the exact migration times of species. Many factors such as weather conditions or other environmental factors may push migration times ahead or behind slightly. There was a dramatic increase in population during the months of May and June, which are the core migration periods, as well as the breeding season of the majority of species found within Nova Scotia. This tells us that there is a breeding population of various species within the Kemptown study area. There was also a slow drop in population each month as the temperature dropped, and the winter weather moved in. This is typical behavior for birds at this time of year, as the colder weather moves in; the migratory species finish breeding and start migrating south for the winter months.

Throughout this location there was an abundant population of scavenger species such as American crow, and herring gull. The Colchester Balefill Facility is approximately one kilometer east of the Kemptown wind project location. With this landfill site in such close proximity, it is not uncommon to see high populations of these two bird species. For a complete list of species total counts, refer to Appendix 1.

HABITAT TYPES

The Kemptown survey location consists of five habitat types: power line corridor which consisted of grassy vegetation and other low lying shrubs; immature mixed-wood which consists of red maple (*Acer rubrum*), trembling aspen (*Populus Tremuloides*), red spruce (*Picea rubens*), Norway spruce (*Picea abies*) and balsam fir (*Abies balsamea*); mature hardwood which consists of sugar maple (*Acer saccharum*), red maple (*Acer rubrum*), white birch (*Betula papyrifera*), trembling aspen (*Populus tremuloides*), and large-tooth aspen (*Populus grandidentata*); and immature softwood which consists of red spruce (*Picea rubens*), white spruce (*Picea glauca*), Norway spruce (*Picea abies*) and balsam fir (*Abieas balsemea*). The majority of the immature softwood habitats are plantations that had been pre-commercially thinned in the previous years. The treed bog habitat consists of black spruce (*Picea mariana*), eastern larch (*Larix laricina*) and various low lying ericaceous vegetation such as lambkill (*Kalmia angustifolia*) and Labrador tea (*Rhododendron groenlandicum*).

The majority of birds found throughout the five habitat types were found in the power line corridor at approximately 30%. This type of habitat attracts a variety of bird species for various reasons. As well, birds are more visible to the technician during the survey. There is an abundant food source. An open field habitat is home to millions of species of insects which are the most common food source of bird species found in Nova Scotia. The tall grassy vegetation found in this type of habitat can be used for nesting, nest building materials, and cover from predators. The majority of birds recorded in this habitat type were spotted along the edges of the grassed area, where it met wooded areas (edge effect). Many birds live along the edges of habitat types for several reasons. Birds are able to stay in the cover of wooded areas while nesting or hunting, but also have access to the large food source of the open field habitat. It is very common to see birds flying in and out of wooded areas into the power line corridor for food and nesting materials and then quickly retreating back to the cover of the wooded areas. Some birds however, field sparrows (*Spizella pusilla*) for example (a rare, non-resident species in Nova Scotia), live their life within the open fields and tend to stay out of wooded areas. They build their nests in the tall vegetation or in abandoned microtine burrows, and take advantage of the large amount of food within the open field.

The least populated habitat type found within this study is the treed bog habitat. Although some species such as the Swamp sparrow (*Melospiza georgiana*) thrive in bog habitat, it is not ideal for most bird species. Due to the high acidity of the soils found throughout bog habitats there is a low amount of vegetation present. The lack of vegetation does not allow for adequate cover from weather or predators, and also does not provide good nesting materials. Although there are an abundance of insects found

throughout bogs, which are the primary food for most bird, most bird species will feed in these areas only.

SUPPLEMENTAL MONITORING

During the development process of the Project, the proposed locations of the turbines were spaced out to include the easterly property to the one which the 2012-13 survey took place. The developer request BlackBird Consulting complete another cycle of surveys for the highest month of bird activity to see whether any special species at risk or sensitive breeding habitat was located in the extended portion of the property.

During the month of June 2013, two additional monitoring sessions took place. The new survey location coordinates are: 491389E 5032930N. All of the same methods and monitoring procedures were used at the new site location. For a complete list of results found during the supplemental monitoring sessions refer to appendix 2.

CONCLUSION

If the wind turbine project continues as planned, a post monitoring period will commence immediately after construction. There will then be a correlation between the pre and post population assessments, which will help to determine whether there was an effect on population numbers in the study area and any necessary mitigation measure that may be required of the development.

After concluding this 52 week pre-assessment, it was found that there are two species of special concern (Sensitive) found in the area. As stated above, the eastern wood pewee and the killdeer both have a stable population (100+ occurrences) throughout Nova Scotia. This stability in population numbers indicates that it is not predicted that special precautions should be set into place. The access roads and turbine areas will not impact a great amount of actual disturbance, and should not be cleared during the months of May – August to avoid unnecessary impacts to the local avian population.

The Kemptown survey location is an adequate representation of a heavily harvested Acadian forests found throughout Nova Scotia. There are no habitat types or bird species unique in nature found throughout this study area. There are no threatened or endangered species found throughout the area. Based on the increased bird counts during the breeding months, it was found that there are breeding populations of birds found within the Kemptown area, however, as stated above, the habitat types are not unique, and therefore if birds need to relocate nesting grounds, there are suitable habitat types in close proximity.

LITERATURE CITED

Atlantic Canada Conservation Data Centre. 2010. Understanding Ranks, Retrieved 22 November 2011, from Atlantic Canada Conservation Data Centre, Web site:
<http://accdc.com/Data/ranks.html>

Atlantic Canada Conservation Data Centre. 2010. Rarity Ranks and Legal Status by Province – Nova Scotia, Animal Vertebrate, Retrieved 22 November 2011, from Atlantic Canada Conservation Data Centre, Web site:
<http://www.accdc.com/webranks/NSVERT.HTM>

Canadian Wildlife Service. 2007. Recommended Protocols for Monitoring Impacts of Wind Turbines on Birds, Retrieved 23 November 2011, from Environment Canada, Web site: <http://www.ec.gc.ca/Publications/C8CE090E-9F69-4080-8D47-0622E115A4FF%5CCWSWindTurbineAndBirdsMonitoringGuide2007.pdf>

Canadian Wildlife Service. 2006. Wind Turbines and Birds A Guidance Document for Environmental Assessment, Retrieved 23 November 2011, from Environment Canada, Web site:
http://www.bape.gouv.qc.ca/sections/mandats/eole_matane/documents/DB15.pdf

Canadian Wind Energy Association. 2008. Wind Energy – Wind Facts, Retrieved 12 November 2011, from Canadian Wind Energy Association, Web site:
http://www.canwea.ca/wind-energy/index_e.php

APPENDICES

Appendix 1. List of species and total counts found throughout the Kemptown wind farm study area, Colchester County, NS. Drawn by Black Bird Environmental Consulting, April 2012-March 2013.

| TOTAL COUNT BY SPECIES | | | |
|-------------------------------|--------------------|---------------------------|--------------------|
| Species | Total Count | Species | Total Count |
| American crow | 356 | Magnolia Warbler | 39 |
| Herring Gull | 281 | Northern Parula | 38 |
| Black-capped Chickadee | 188 | Red-breasted Nuthatch | 35 |
| Dark-eyed Junco | 169 | Red-eyed Vireo | 34 |
| Swainson's Thrush | 167 | Ruffed Grouse | 34 |
| white-throated Sparrow | 151 | Golden crowned kinglet | 30 |
| Blue Jay | 120 | Boreal Chickadee | 10 |
| American Robin | 108 | Common Raven | 7 |
| American Goldfinch | 103 | Yellow-bellied Sapsucker | 7 |
| Black-throated Green Warbler | 91 | American Woodcock | 6 |
| Common Yellowthroat | 80 | Hairy Woodpecker | 6 |
| Ovenbird | 80 | Pileated Woodpecker | 4 |
| Yellow Bellied Flycatcher | 78 | Red-winged Blackbird | 4 |
| Song Sparrow | 69 | Killdeer | 3 |
| Mourning Dove | 64 | Northern Flicker | 3 |
| Yellow-rumped Warbler | 64 | American Redstart | 2 |
| European Starling | 60 | Bald eagle | 2 |
| Alder Flycatcher | 53 | Ring-necked Pheasant | 2 |
| Winter Wren | 49 | Ruby-throated Hummingbird | 1 |
| Black-and-White Warbler | 41 | | |

Appendix 2. Two week supplemental study done on new Kemptown location, Colchester County, NS. Created by Black Bird Environmental Consulting, June 2013.

KEMPTOWN SUPPLEMENTAL RESULTS

Throughout the two week supplemental study done at the new Kemptown survey location, there was a total of 15 bird species recorded. All of these species had an S-Rank of S4S5 or higher. In comparison, in the supplemental survey there was no observance of the Eastern Wood Pee-wee (*Contopus virens*) and the Killdeer (*Charadrius vociferous*) (S3) as were recorded in the original survey. For a complete list of species recorded at supplemental location see table 1.

Table 1. Complete list of bird species observed during the 2 week supplemental study of the Kemptown survey location, Colchester County, Nova Scotia, data collected by Black Bird Environmental Consulting, April - March 2012-2013.

| COMPLETE SPECIES LIST | | | |
|------------------------------|-------------------------------|--------------|--------------------|
| Common Name | Scientific Name | Global Ranks | Sub-National Ranks |
| American Robin | <i>Turdus migratorius</i> | G5 | S5B* |
| American crow | <i>Corvus brachyrhynchos</i> | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | G5 | S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | G5 | S4S5B |
| Black-throated Green Warbler | <i>Dendroica virens</i> | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | G5 | S4S5B |

During the two week supplemental study of the Kemptown survey location that took place throughout the month of June 2013, a total of 64 birds were recorded. In June 2012, 101 birds were recorded. There were 37 fewer birds recorded at the updated site location (figure 4).

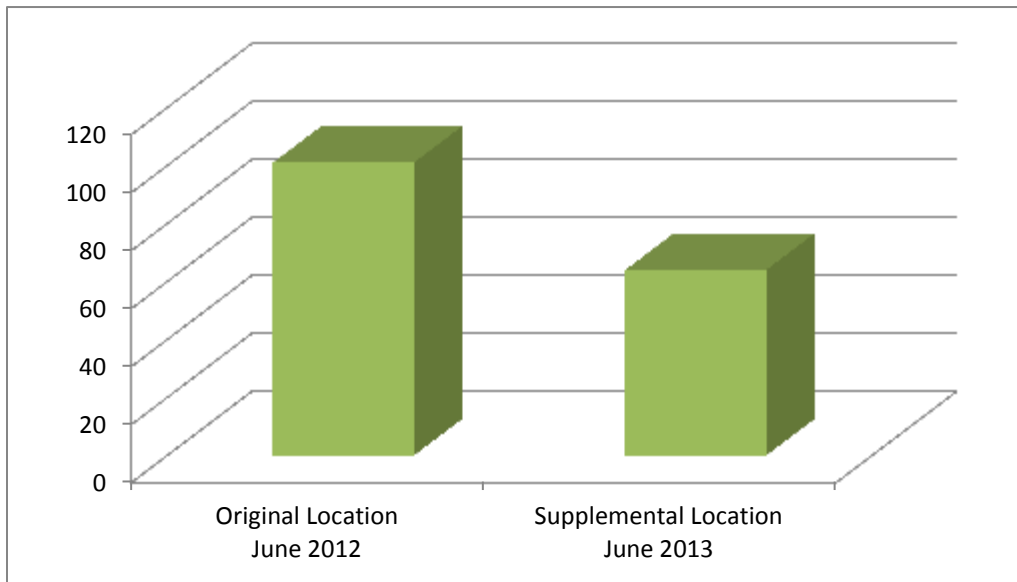


Figure 4. Comparison between mean bird totals found in June at the Kemptown original survey location and supplemental survey location during study, Kemptown, Colchester County, Nova Scotia, data collected by Black Bird Environmental Consulting.

During the two week supplemental study that took place throughout the month of June 2013, two habitat types were found at the supplemental Kemptown location. The two habitat types consisted of immature softwood, and immature mixedwood. 78 % of the total birds recorded were found in the immature softwood habitat type while 22 % of the total birds were found in the immature mixedwood field habitat type (figure 2).

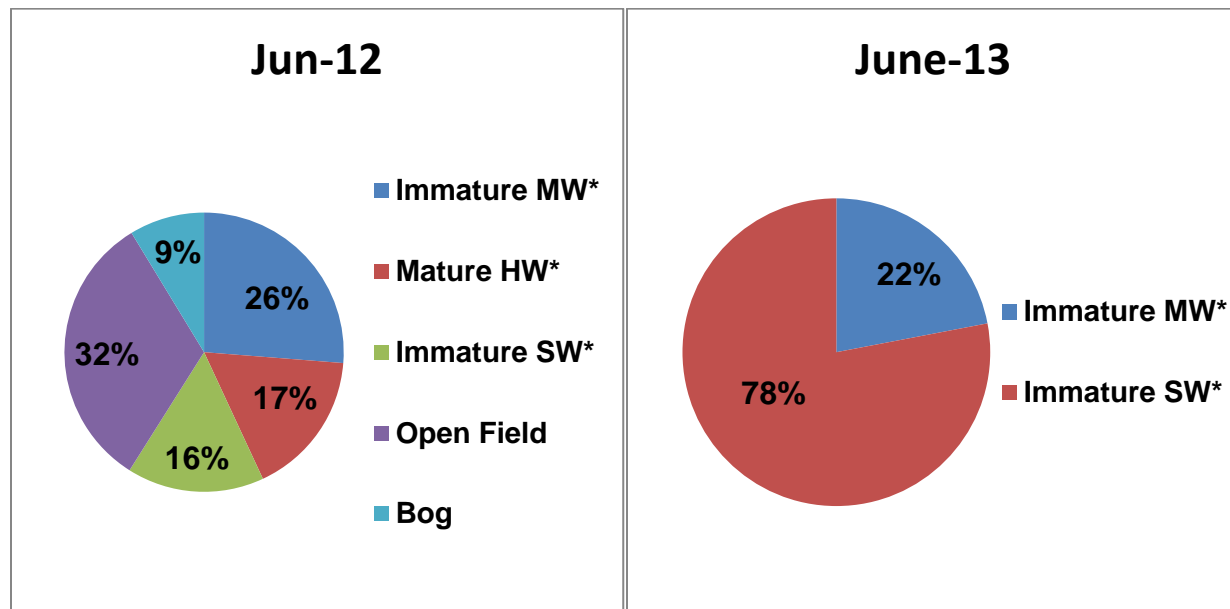


Figure 5. Comparison of percentage of total birds recorded throughout habitat types found within the Kemptown original survey location and the supplemental survey location, Colchester County, NS, data collected by Black Bird Environmental Consulting April – June 2012-2013.

MW : Mixedwood

HW: Hardwood

SW: Softwood

CONCLUSION

When comparing the previous and supplemental Kemptown locations, many factors indicate the supplemental location has potential to be the more desirable location (developer is choosing 3 out of 4) for turbine development. There were no species of concern as listed by the ACCDC found in the supplemental Kemptown location. When comparing this to the previous locations, three species were listed with S-ranks below S4 which is defined by the ACCDC as: usually widespread, fairly common, and apparently secure with many occurrences, but of longer-term concern (100+ occurrences). When comparing the original locations and the supplemental location, fewer birds were recorded in the supplemental location in June.

The habitat types at both of the locations are typical of a heavily harvested Acadian forest found throughout Nova Scotia. Although the supplemental location does not have as many habitat types, the types that are present are the same in nature of those found in the previous location.

It is recommended that the supplemental location be one of the locations used for turbine construction. Although no habitat impact would be the best case scenario, if access roads and turbine locations are constructed outside of the major migratory and breeding bird seasons, and are built with minimal new clearing, the development has a low potential to impact the avian population in the area.

Appendix 3. Tally sheets used throughout the Kemptown wind farm study area, Kemptown, Colchester County, NS. Created by Black Bird Environmental Consulting, April 2012-March 2013.

| Date: April 6, 2012 | | | | |
|------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | | 10 | -4 | |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 5 | G5 | S5B* |
| European Starling | <i>Sturnus vulgaris</i> | 3 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 2 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 1 | G5 | S5B |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 1 | G5 | S4 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 2 | G5 | S4S5 |
| | TOTAL | 14 | | |

| Date: April 23, 2012 | | | | |
|------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | | 10 | 1 | |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 6 | G5 | S5B* |
| American crow | <i>Corvus brachyrhynchos</i> | 5 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 6 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 2 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 3 | G5 | S5B |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 2 | G5 | S4 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 4 | G5 | S4S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 7 | G5 | S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 1 | G5 | S5B |
| | TOTAL | 36 | | |

| Date: April 13, 2012 | | | | |
|------------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 10 | 3 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 7 | G5 | S5B* |
| Common Raven | <i>Corvus corax</i> | 1 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 4 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 6 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 7 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 1 | G5 | S5B |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | 1 | G5 | S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 9 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 2 | G5 | S4 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 4 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 8 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 8 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 6 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| Yellow Bellied Sapsucker | <i>Phyrpicus varius</i> | 1 | G5 | S4S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 7 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 1 | G5 | S5B |
| | TOTAL | 79 | | |

| Date: May 18, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 12 | 10 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 4 | G5 | S5B* |
| American crow | <i>Corvus brachyrhynchos</i> | 7 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 6 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 2 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 1 | G5 | S5B |
| Northern Flicker | <i>Colaptes auratus</i> | 4 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 2 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 6 | G5 | S4 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 5 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 9 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 4 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 2 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 1 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 11 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 5 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 8 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 2 | G5 | S5B |
| Common Yellowthroat | <i>Parula americana</i> | 6 | G5 | S5B |
| Northern Parula | <i>Geothlypis trichas</i> | 1 | G5 | S5B |
| American Woodcock | <i>Scolopax minor</i> | 2 | G5 | S5B |
| | TOTAL | 94 | | |

| Date: May 21, 2012 | | | | |
|------------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 6 | 13 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 3 | G5 | S5B* |
| American crow | <i>Corvus brachyrhynchos</i> | 3 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 10 | G5 | S5B |
| Northern Flicker | <i>Colaptes auratus</i> | 2 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 2 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 2 | G5 | S4 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 9 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 6 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 10 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 2 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 3 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 15 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 7 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 11 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 2 | G5 | S5B |
| Common Yellowthroat | <i>Parula americana</i> | 16 | G5 | S5B |
| Northern Parula | <i>Geothlypis trichas</i> | 1 | G5 | S5B |
| | TOTAL | 106 | | |

| Date: June 1, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 13 | 12 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 5 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 3 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 2 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 3 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 7 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 5 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 3 | G5 | S4 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 9 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 4 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 10 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 4 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 6 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 3 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 10 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 7 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 9 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 2 | G5 | S5B |
| Common Yellowthroat | <i>Parula americana</i> | 11 | G5 | S5B |
| Northern Parula | <i>Geothlypis trichas</i> | 3 | G5 | S5B |
| American Woodcock | <i>Scolopax minor</i> | 2 | G5 | S5B |
| | TOTAL | 109 | | |

| Date: June 10, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 10 | 15 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 9 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 4 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 3 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 5 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 6 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 2 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 8 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 2 | G5 | S4 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 10 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 4 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 9 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 9 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 3 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 8 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 6 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 9 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 4 | G5 | S5B |
| Common Yellowthroat | <i>Parula americana</i> | 9 | G5 | S5B |
| Northern Parula | <i>Geothlypis trichas</i> | 3 | G5 | S5B |
| | TOTAL | 114 | | |

| Date: June 15, 2012 | | | | |
|------------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 13 | 12 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 4 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 2 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 7 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 12 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 3 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 5 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 15 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 2 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 3 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 2 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 4 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 5 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 2 | G5 | S5B |
| Common Yellowthroat | <i>Parula americana</i> | 5 | G5 | S5B |
| American Redstart | <i>Setophaga ruticilla</i> | 1 | G5 | S5B |
| Northern Parula | <i>Geothlypis trichas</i> | 4 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 2 | G5 | S4S5B |
| American Woodcock | <i>Scolopax minor</i> | 1 | G5 | S5B |
| | TOTAL | 81 | | |

| Date: July 1, 2012 | | | | |
|------------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 11 | 14 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 2 | G5 | S5B* |
| Red-winged Blackbird | <i>Agelaius phoeniceus</i> | 1 | G5 | S4S5B* |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 9 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 11 | G5 | S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 3 | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 3 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 16 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 5 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 2 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 3 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 8 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 6 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 1 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 11 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 2 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 3 | G5 | S5B |
| | TOTAL | 94 | | |

| Date: July 7, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 6 | 15 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 9 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 4 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 4 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 10 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 5 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 11 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 3 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 11 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 2 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 7 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 10 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 2 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 4 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 2 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 6 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 9 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 3 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 3 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 4 | G5 | S5B |
| | TOTAL | 114 | | |

| Date: July 14, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 9 | 17 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 3 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 5 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 4 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 8 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 4 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 9 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 4 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 8 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 3 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 8 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 5 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 3 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 3 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 6 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 5 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 6 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 4 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 4 | G5 | S5B |
| | TOTAL | 102 | | |

| Date: July 25, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 5 | 14 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 5 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 5 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 4 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 14 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 10 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 9 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 3 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 11 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 6 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 3 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 5 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 2 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 4 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 5 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 6 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 2 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 3 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 7 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 4 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 3 | G5 | S5B |
| American Redstart | <i>Setophaga ruticilla</i> | 1 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 6 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 119 | | |

| Date: July 31, 2012 | | | | |
|------------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 15 | 17 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 2 | G5 | S5B* |
| Red-winged Blackbird | <i>Agelaius phoeniceus</i> | 1 | G5 | S4S5B* |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 9 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 11 | G5 | S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 3 | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 3 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 16 | G5 | S4S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 5 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 2 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 3 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 8 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 6 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 1 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 11 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 2 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 3 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 95 | | |

| Date: August 3, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 8 | 16 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 6 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 3 | G5 | S5 |
| Red-winged Blackbird | <i>Agelaius phoeniceus</i> | 2 | G5 | S4S5B* |
| Mourning Dove | <i>Zenaida macroura</i> | 3 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 9 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 5 | G5 | S5B |
| Killdeer | <i>Charadrius vociferus</i> | 1 | G5 | S3S4B |
| Yellow-bellied Sapsucker | <i>phyrapicus varius</i> | 2 | G5 | S4S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 2 | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 7 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 1 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 9 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 4 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 5 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 4 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 5 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 9 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 3 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 4 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 4 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 3 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 4 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 1 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 2 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 3 | G5 | S5B |

| | | | | |
|--|--------------|------------|--|--|
| | TOTAL | 101 | | |
|--|--------------|------------|--|--|

| Date: August 11, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 12 | 14 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 3 | G5 | S5B* |
| Mourning Dove | <i>Zenaida macroura</i> | 4 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 2 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 3 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 4 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 9 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 6 | G5 | S5B |
| Killdeer | <i>Charadrius vociferus</i> | 1 | G5 | S3S4B |
| Yellow-bellied Sapsucker | <i>phyrapicus varius</i> | 1 | G5 | S4S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 2 | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 6 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 1 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 10 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 4 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 4 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 3 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 6 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 6 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 4 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 3 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 3 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 2 | G5 | S5B |

| | | | | |
|-----------------|---------------------------------|-----------|----|-------|
| Dark-eyed Junco | <i>Junco hyemalis</i> | 2 | G5 | S4S5 |
| Northern Parula | <i>Parula americana</i> | 2 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | 1 | G5 | S4 |
| TOTAL | | 93 | | |

| Date: August 18, 2012 | | | | |
|------------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 19 | 9 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 4 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 6 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 3 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 1 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 7 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 4 | G5 | S5B |
| Yellow-bellied Sapsucker | <i>phyrapicus varius</i> | 2 | G5 | S4S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 4 | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 5 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 2 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 6 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 2 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 5 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 2 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 4 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 8 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 5 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |

| | | | | |
|---------------------------|-------------------------------|-----------|----|-------|
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 3 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 2 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 5 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 1 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 2 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 3 | G5 | S5B |
| Ruby-throated Hummingbird | <i>Archilochus colubris</i> | 1 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| American Woodcock | <i>Scolopax minor</i> | 1 | G5 | S5B |
| Ring-necked Pheasant | <i>Phasianus colchicus</i> | 1 | G5 | SNA |
| | TOTAL | 92 | | |

| Date: August 25, 2012 | | | | |
|--------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 17 | 23 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 2 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 7 | G5 | S5 |
| Mourning Dove | <i>Zenaidura macroura</i> | 4 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 1 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 2 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 6 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 6 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 4 | G5 | S5B |
| Killdeer | <i>Charadrius vociferus</i> | 1 | G5 | S3S4B |
| Yellow-bellied Sapsucker | <i>phyrapicus varius</i> | 1 | G5 | S4S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 3 | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 8 | G5 | S5 |

| | | | | |
|------------------------------|--------------------------------|------------|----|-------|
| Golden crowned kinglet | <i>Regulus satrapa</i> | 1 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 9 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 3 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 4 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 2 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 4 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 7 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 4 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 2 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 2 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 6 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 1 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 1 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 2 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| Ring-necked Pheasant | <i>Phasianus colchicus</i> | 1 | G5 | SNA |
| TOTAL | | 100 | | |

| Date: August 31, 2012 | | | | |
|-----------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 15 | 16 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 3 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 9 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 1 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 1 | G5 | S5 |

Breeding Bird Survey

September 2013

| | | | | |
|------------------------------|---------------------------------|-----------|----|-------|
| European Starling | <i>Sturnus vulgaris</i> | 7 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 3 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 5 | G5 | S5B |
| Yellow-bellied Sapsucker | <i>phyrapicus varius</i> | 1 | G5 | S4S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 2 | G5 | S4S5 |
| American Goldfinch | <i>Carduelis tristis</i> | 9 | G5 | S5 |
| Golden crowned kinglet | <i>Regulus satrapa</i> | 1 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 3 | G5 | S4 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 1 | G5 | S5 |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 2 | G5 | S4S5B |
| Black-and-White Warbler | <i>Mniotilta varia</i> | 1 | G5 | S4S5B |
| Magnolia Warbler | <i>Setophaga magnolia</i> | 2 | G5 | S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 4 | G5 | S5B |
| Winter Wren | <i>Troglodytes troglodytes</i> | 2 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 6 | G5 | S5 |
| Yellow Bellied Flycatcher | <i>Empidonax flaviventris</i> | 2 | G5 | S4S5 |
| Alder Flycatcher | <i>Empidonax alnorum</i> | 1 | G5 | S5B |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 6 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 1 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 1 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 2 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 2 | G5 | S4S5B |
| Bald eagle | <i>Haliaeetus leucocephalus</i> | 1 | G5 | S4 |
| | TOTAL | 84 | | |

| Date: September 5, 2012 | | | | |
|-------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 18 | 15 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 6 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 5 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 9 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 6 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 8 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 4 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 3 | G5 | S5B |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 3 | G5 | S4 |
| Winter Wren | <i>Troglodytes troglodytes</i> | 6 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 3 | G5 | S4S5 |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 3 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 4 | G5 | S4S5B |
| | TOTAL | 70 | | |

| Date: September 14, 2012 | | | | |
|--------------------------|----------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 14 | 16 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 7 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 7 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 4 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 8 | G5 | S4S5 |

| | | | | |
|------------------------|--------------------------------|-----------|----|-------|
| American crow | <i>Corvus brachyrhynchos</i> | 9 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 5 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 2 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 1 | G5 | S5B |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 2 | G5 | S4 |
| Winter Wren | <i>Troglodytes troglodytes</i> | 7 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 3 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 6 | G5 | S4S5 |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 5 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 5 | G5 | S4S5B |
| TOTAL | | 71 | | |

| Date: September 22, 2012 | | | | |
|--------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 16 | 14 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 5 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 8 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 31 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 18 | G5 | S5 |
| European Starling | <i>Sturnus vulgaris</i> | 8 | G5 | SNA* |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 1 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 5 | G5 | S5B |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 4 | G5 | S4 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 4 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 4 | G5 | S4S5 |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 2 | G5 | S5B |

| | | | | |
|---------------|------------------------|-----------|----|-------|
| Ruffed Grouse | <i>Bonasa umbellus</i> | 3 | G5 | S4S5B |
| | TOTAL | 98 | | |

| Date: September 29, 2012 | | | | |
|--------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 12 | 16 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 2 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 4 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 5 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 15 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 12 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 3 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 4 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 5 | G5 | S4S5 |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 1 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 4 | G5 | S4S5B |
| | TOTAL | 60 | | |

| Date: October 3, 2012 | | | | |
|------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 11 | 11 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 3 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 5 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 12 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 16 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 1 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 1 | G5 | S5B |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 1 | G5 | S4S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 8 | G5 | S5 |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 48 | | |

| Date: October 9, 2012 | | | | |
|------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 9 | 10 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Herring Gull | <i>Larus argentatus</i> | 14 | G5 | S4S5 |
| Common Raven | <i>Corvus corax</i> | 4 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 13 | G5 | S5 |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | 1 | G5 | S5 |
| Winter Wren | <i>Troglodytes troglodytes</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 10 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 1 | G5 | S4S5 |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 2 | G5 | S4S5B |
| | TOTAL | 46 | | |

| Date: October 17, 2012 | | | | |
|------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 5 | 9 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 2 | G5 | S5B* |
| Blue Jay | <i>Cyanocitta cristata</i> | 6 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 10 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 20 | G5 | S5 |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | 1 | G5 | S5 |
| Hairy Woodpecker | <i>Picoides villosus</i> | 2 | G5 | S5 |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 3 | G5 | S4S5 |
| Winter Wren | <i>Troglodytes troglodytes</i> | 3 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 13 | G5 | S5 |
| Boreal Chickadee | <i>Poecile hudsonicus</i> | 1 | G5 | S3 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 3 | G5 | S4S5 |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 65 | | |

| Date: October 23, 2012 | | | | |
|------------------------|--------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 10 | 7 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 3 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 25 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 30 | G5 | S5 |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 1 | G5 | S4S5 |
| Winter Wren | <i>Troglodytes troglodytes</i> | 1 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 9 | G5 | S5 |
| Boreal Chickadee | <i>Poecile hudsonicus</i> | 2 | G5 | S3 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 2 | G5 | S4S5 |
| | TOTAL | 73 | | |

| Date: October 27, 2012 | | | | |
|------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 12 | 4 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 5 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 14 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 24 | G5 | S5 |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 2 | G5 | S4S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 8 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 3 | G5 | S4S5 |
| | TOTAL | 56 | | |

| Date: November 2, 2012 | | | | |
|------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 12 | 4 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 4 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 24 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 37 | G5 | S5 |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 1 | G5 | S4S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 11 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 1 | G5 | S4S5 |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 79 | | |

| Date: November 10, 2012 | | | | |
|-------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 12 | 10 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 5 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 18 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 22 | G5 | S5 |
| Hairy Woodpecker | <i>Picoides villosus</i> | 2 | G5 | S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 10 | G5 | S5 |
| Boreal Chickadee | <i>Poecile hudsonicus</i> | 3 | G5 | S3 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 3 | G5 | S4S5 |
| | TOTAL | 63 | | |

| Date: November 18, 2012 | | | | |
|-------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 11 | 1 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 4 | G5 | S5 |
| Mourning Dove | <i>Zenaida macroura</i> | 1 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 12 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 18 | G5 | S5 |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 3 | G5 | S4S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 6 | G5 | S5 |
| Boreal Chickadee | <i>Poecile hudsonicus</i> | 1 | G5 | S3 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 5 | G5 | S4S5 |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 51 | | |

| Date: November 23, 2012 | | | | |
|-------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 8 | -1 | | flurries |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 3 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 16 | G5 | S4S5 |
| Common Raven | <i>Corvus corax</i> | 2 | G5 | S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 19 | G5 | S5 |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | 1 | G5 | S5 |
| Hairy Woodpecker | <i>Picoides villosus</i> | 2 | G5 | S5 |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 4 | G5 | S4S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 7 | G5 | S5 |
| Boreal Chickadee | <i>Poecile hudsonicus</i> | 2 | G5 | S3 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 6 | G5 | S4S5 |
| | TOTAL | 62 | | |

| Date: November 27, 2012 | | | | |
|-------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 18 | 1 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 1 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 9 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 10 | G5 | S5 |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 1 | G5 | S4S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| Boreal Chickadee | <i>Poecile hudsonicus</i> | 1 | G5 | S3 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 4 | G5 | S4S5 |
| | TOTAL | 31 | | |

| Date: December 8, 2012 | | | | |
|------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 6 | -8 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 2 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 18 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 2 | G5 | S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 3 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 2 | G5 | S4S5 |
| | TOTAL | 27 | | |

| Date: December 30, 2012 | | | | |
|-------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 10 | -3 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 2 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 13 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 9 | G5 | S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 4 | G5 | S4S5 |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 2 | G5 | S4S5B |
| | TOTAL | 32 | | |

| Date: January 19, 2013 | | | | |
|------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 13 | -3 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 1 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 8 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 6 | G5 | S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 2 | G5 | S4S5 |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 20 | | |

| Date: February 16, 2013 | | | | |
|-------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | | 11 | -4 | |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 1 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 6 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 4 | G5 | S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 3 | G5 | S5 |
| | TOTAL | 14 | | |

| Date: March 10, 2013 | | | | |
|------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | | 13 | -1 | |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 2 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 7 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 6 | G5 | S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 5 | G5 | S5 |
| | TOTAL | 20 | | |

| Date: March 24, 2013 | | | | |
|------------------------|------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 10 | 14 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| Blue Jay | <i>Cyanocitta cristata</i> | 4 | G5 | S5 |
| Herring Gull | <i>Larus argentatus</i> | 8 | G5 | S4S5 |
| American crow | <i>Corvus brachyrhynchos</i> | 7 | G5 | S5 |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 7 | G5 | S5 |
| | TOTAL | 26 | | |

| Date: June 8, 2013 | | | | |
|------------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 14 | 16 | | overcast |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 2 | G5 | S5B* |
| American crow | <i>Corvus brachyrhynchos</i> | 5 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 9 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 3 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 6 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 10 | G5 | S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 2 | G5 | S4S5B |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 5 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 6 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 2 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 3 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 2 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 5 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 1 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | G5 | S4S5B |
| | TOTAL | 62 | | |

| Date: June 22, 2013 | | | | |
|------------------------------|-------------------------------|---------------------|-------------------|-------------------------|
| Location: Kemptown | Wind speed (km/h) | Temperature (°C) | | Sky |
| | 10 | 14 | | clear |
| Common Name | Scientific Name | Total species count | ACCDC Global Rank | ACCDC Sub-National Rank |
| American Robin | <i>Turdus migratorius</i> | 4 | G5 | S5B* |
| American crow | <i>Corvus brachyrhynchos</i> | 6 | G5 | S5 |
| white-throated Sparrow | <i>Zonotrichia albicollis</i> | 11 | G5 | S5B |
| Song Sparrow | <i>Melospiza melodia</i> | 5 | G5 | S5B |
| American Goldfinch | <i>Carduelis tristis</i> | 7 | G5 | S5 |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 10 | G5 | S5 |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 3 | G5 | S4S5B |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 5 | G5 | S4S5B |
| Ovenbird | <i>Seiurus aurocapillus</i> | 4 | G5 | S5B |
| Black-capped Chickadee | <i>Poecile atricapilla</i> | 4 | G5 | S5 |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 2 | G5 | S4S5 |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 3 | G5 | S5B |
| Common Yellowthroat | <i>Geothlypis trichas</i> | 2 | G5 | S5B |
| Northern Parula | <i>Parula americana</i> | 1 | G5 | S5B |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 0 | G5 | S4S5B |
| | TOTAL | 67 | | |