

**APPENDIX E**  
**ECOLOGICAL SURVEY**

# Biological Assessment of Lot 15

## Halifax Aerotech Park



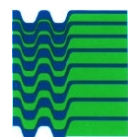
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Revised September 12, 2006

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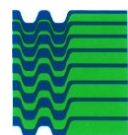
## 1 INTRODUCTION

In May 2006 CEF Consultants was contracted to conduct an ecological survey of the property owned by Clean Earth Technologies, at the Halifax Aerotech Park, Halifax County, Nova Scotia, located at approximately 44° 51' 15" N and 63° 32' 47" W. The approximate location of the lot is shown in Figure 1.



**Figure 1: Air Photo Showing the Approximate Location of Lot 15 (marked in red)**

The site has been heavily disturbed by the current industrial use (Figure 2), but a perimeter buffer zone of undisturbed vegetation has been maintained around the boundary of the property. A perimeter chain link fence was being installed along a cut line that marked the property boundary during the field survey on May 28, 2005. The remainder of the lot has been cleared of vegetation, levelled and graded. A small stream



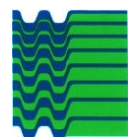
runs in the northwest corner of the lot, but no wetlands are present on the property. Given the development of the property and surrounding area, the following elements were chosen for ecological evaluation:

- Botanical Resources
- Water Courses
- Fish Habitat
- Wildlife
- Ornithological Resources
- Species at Risk



**Figure 2: Photograph of Lot 15 (showing the cleared and graded lot in the foreground and the buffer zone behind)**

Following comment by provincial government regulators on a draft report, additional material related to species of concern and wetlands was incorporated in the report. This additional material did not substantively change the conclusions of the draft report dated June 12, 2006.



## 2 SPECIES AT RISK

In November of 2005 the Nova Scotia Department of Environment and Labour published a *Guide to Addressing Wildlife Species and Habitat in an EA Registration Document* (NSDEL, 2005). These guidelines require review of species of concern with 100 km around the proposed development site as a minimum area. In response, a listing of species of concern was obtained from the Atlantic Canada Conservation Data Centre (ACCDC) in Sackville, NB on July 21, 2006. The listing of species within the required 100 km radius of the project site is provided in Table CEFAppendix A.

Information obtained from the ACCDC was reviewed and a more relevant listing of species within 10 km of the project site, including a abbreviated description of preferred habitat types, was produced (Table CEFAppendix B). Based on this listing, only two species, the Pennsylvania sedge (*Carex pensylvanica*) and the southern twayblade (*Listera australis*), had habitat preferences similar to habitats on the property surveyed. Both species had been previously observed within two kilometres of the project site.

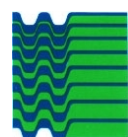
The typical habitat for the southern twayblade, *Listera australis* Lindl, is “in shaded sphagnum moss, under balsam fir, red maple, and cinnamon fern” (Zinck 1998). The typical habitat for Pennsylvania sedge, *Carex pensylvanica* Lam., is “in dry, rocky or gravelly soil, and dry, open woodlands” (Zinck 1998).

## 3 BOTANICAL SURVEY

Jim Jotcham of Marbicon, Inc. conducted a botanical survey of Lot 15 on May 28, 2006. No rare plant species or unusual habitats were identified on the property. The site was sampled by walking through all the natural areas. Because the size of the site was small, a random sampling procedure was not required. The entire site was examined with a focus on the forested buffer zones at the edges of the site. No quantitative sampling was performed.

The area studied was predominantly a balsam fir-red maple complex, with occasional cinnamon fern. The site was stratified, with maples above, fir in a middle storey, and the forest floor, including cinnamon fern, below. The fir was thick, shading out other vegetation in most places. Other occasional tree species included wire birch and red spruce.

Because the southern twayblade and Pennsylvania sedge were known to exist in the airport area, potential habitats for these species – shaded sphagnum moss, under balsam fir, red maple, and cinnamon fern and dry, rocky and gravelly soil, and dry, open



woodlands – were especially examined. No southern twayblade or Pennsylvania sedge were found on the property or in areas immediately outside the fence.

A list of the plants identified during the survey is provided in Table 1. Since there are no rare or unusual plant species or habitat, no floristic reasons to restrict further development were identified in this inventory.

**Table1: List of Plant Species Found in Lot 15**

Common Names	Scientific Name
VASCULAR PLANTS	
Balsam-fir	<i>Abies balsamea</i> (L.) Mill
Beaked willow	<i>Salix bebbiana</i> Sarg.
Bracken	<i>Pteridium aquilinum</i> (L.) Kuhn
Bunchberry	<i>Cornus canadensis</i> L.
Bush-honeysuckle	<i>Diervilla lonicera</i> P.Mill.
Cinnamon fern	<i>Osmunda cinnamomea</i> L.
Clintonia-lily	<i>Clintonia borealis</i> (Aiton)Raf.
Coltsfoot	<i>Tussilago farfara</i> L.
Common juniper	<i>Juniperus communis</i> L.
Creeping snowberry	<i>Gaultheria hispidula</i> (L.) Muhl.
Dandelion	<i>Taraxacum officinale</i> Weber
Eastern larch	<i>Larix laricina</i> (DuRoi) K.Koch
Fly-honeysuckle	<i>Lonicera canadensis</i> Bartr.
Goldthread	<i>Coptis trifolia</i> (L.) Salisb.
Hazelnut	<i>Corylus cornuta</i> Marshall
Hobble-bush	<i>Viburnum alnifolium</i> Marsh.
Huckleberry	<i>Gaylussacia baccata</i> (Wang.) K.Koch
Labrador-tea	<i>Ledum groenlandicum</i> Oeder
Mayflower	<i>Epigaea repens</i> L.
Meadow-rue	<i>Thalictrum pubescens</i> Pursh

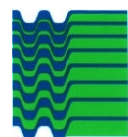
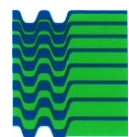


Table 1 (continued)

Common Names	Scientific Name
Meadow-sweet	<i>Spiraea alba</i> Duroi
New York fern	<i>Thelypteris noveboracensis</i> (L.)Nieuwl.
Northern beech fern	<i>Phegopteris connectilis</i> (L.) Nieuwl.
Painted trillium	<i>Trillium undulatum</i> Willd.
Paper birch	<i>Betula papyrifera</i> Marshall
Partridge-berry	<i>Mitchella repens</i> L.
Pearly everlasting	<i>Anaphalis margaritacea</i> (L). Benth. & Hook.
Red-berried elder	<i>Sambucus racemosa</i> L.
Red maple	<i>Acer rubrum</i> L.
Red raspberry	<i>Rubus idaeus</i> L.
Red spruce	<i>Picea rubens</i> Sarg.
Rhodora	<i>Rhododendron canadense</i> (L.)Torr.
Sedge	<i>Carex canescens</i> L.
Serviceberry	<i>Amelanchier</i> sp.
Sheep laurel	<i>Kalmia angustifolia</i> L.
Speckled alder	<i>Alnus incana</i> (L.)Moench
Spinulose wood fern	<i>Dryopteris carthusiana</i> (Vill.)Fuchs
Star-flower	<i>Trientalis borealis</i> Raf.
Strawberry	<i>Fragaria virginiana</i> Duchesne
Sugar maple	<i>Acer saccharum</i> Marsh.
Sulphur cinquefoil	<i>Potentilla recta</i> L.
Sweet coltsfoot	<i>Petasites frigidus</i> (L.)Fries.
Sweet vernal grass	<i>Anthoxanthum odoratum</i> L.
Tall buttercup	<i>Ranunculus acris</i> L.
Teaberry	<i>Gaultheria procumbens</i> L.
Trembling aspen	<i>Populus tremuloides</i> Michx.
Velvet-leaf blueberry	<i>Vaccinium myrtilloides</i> Michx.
White pine	<i>Pinus strobus</i> L.
Wild lily-of-the-valley	<i>Maianthemum canadense</i> Desf.
Wild sarsaparilla	<i>Aralia nudicaulis</i> L.
Wire birch	<i>Betula populifolia</i> Marshall
Witherod	<i>Viburnum nudum</i> L.
Wood aster	<i>Aster acuminatus</i> Michx.
Yellow birch	<i>Betula alleghaniensis</i> Britt
MOSESSES	
Big red stem moss	<i>Pleurozium schreberi</i> (Brid.) Mitt
Hair cap moss	<i>Polytrichum commune</i> Hedw
Peat moss	<i>Sphagnum</i> sp.
Delicate fern moss	<i>Thuidium delicatulum</i> (Hedw.) BSG





**Table 1 (continued)**

Common Names	Scientific Name
LICHENS	
Old man's beard	<i>Usnea barbata</i>

Scientific names for vascular plants are from Zinck (1998). Scientific names for mosses are from Crum (1976).

## 4 STREAM SURVEY

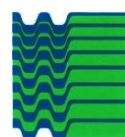
A small stream runs through the northwest corner of the property, draining to the south into Preeper Pond and eventually Soldier Lake. A stream survey was conducted by Norval Collins of CEF Consultants on May 29, 2006. The stream is approximately 2 meters wide, with a cobble and gravel bottom. Total stream length within the property surveyed was approximately 40 m. The stream is relatively typical of headwater brook trout streams in Nova Scotia.

The stream enters the property from two 110 cm ID culverts running under Aerotech Park Drive. On the upstream side of this road, some minor silt accumulation was observed in the shallow (~30 cm deep) pool immediately upstream of the twin culverts. However, accumulations of fine sediment were not observed in the stream channel downstream of the culverts within the property surveyed.

At the time of the survey water temperature was 12.5 °C and pH was 5.5. Water velocity was approximately 0.5 m/s. The western culvert was dry, and the eastern culvert contained water approximately 4 cm deep. Flow conditions observed at the time of the survey would inhibit fish passage, but no obstructions were present and passage would be possible under higher flows.

The stream provides relatively typical brook trout rearing habitat. Stream substrate was 80% boulder and bedrock, 15% cobble and 5% gravel. Canopy closure was about 80%, with streamside vegetation primarily alder, fir and maple with groundcover of ferns and grasses. Many rocks had a moderate growth of algae and moss. Full channel width (bank to bank) was up to 4 m, with 5% undercut banks.

Shelter was the primary factor limiting habitat quality. No potential spawning areas were observed within the property boundaries. Upstream of Aerotech Park Drive habitat appeared to be poorer in quality, but only a brief reconnaissance was made upstream of road. No salmon stocking has occurred in this area, or in Preeper Pond in recent years (Pers. Comm., Shane O'Neil, 2006).



A small 62 cm ID culvert 4 m to the east of the main culverts directs road drainage into the stream. Only a trickle of flow was observed in this culvert, but fine-grained aromatic organic sediment was apparent below it.

Overall the stream provides poor to moderate brook trout rearing habitat. Flow and available shelter limit habitat quality. A well-vegetated and undisturbed buffer zone of approximately 60 m has been left from the cleared and graded part of the site. No indications of effect on fish habitat (e.g., sedimentation, erosion, or litter) were observed from site operations. Spawning habitat was not observed, nor did it appear likely that further upstream areas closer to more industrial land development provided spawning potential.

#### 4.1 Wetlands

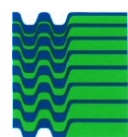
As Figure 1 illustrates Preeper Pond is surrounded by a marshy area, but no other wetlands are located between the project site and the pond. This wetland area was not directly examined as part of this study, but there were no indications of sedimentation or other construction-related impacts in the stream running through the property. Thus it is unlikely this wetland area has been impacted in any way to date by construction on the property. In addition, the buffer area of undisturbed vegetation is sufficiently large that remedial action should be able to be taken before any contaminants reach the stream that flows into this wetland area. The terms of reference for this study, however, did not include an assessment of potential impacts from future operation of the site or review planned responses in relation to accidental events.

## 5 BIRD SURVEY

Andrew Horn of Dalhousie University conducted a survey of birds on or near Lot 15 on May 28, 2006, in order to characterize the bird community, identify any habitats or species of particular conservation value, and to determine the suitability of the area for nesting raptors. The area is not an important migratory route or stopover site.

The strip of habitat between the excavated and filled portion of the site and the new fence line is unlikely to be an important nesting habitat for any of the listed species, since it is edge habitat and would form less than 10% of any of single pair's territory. The habitat within this band is unsuitable for nesting raptors.

The bird community is typical of young mixed forest habitat with disturbed patches. All are abundant throughout the province; none are of conservation concern, and neither the bird community nor the habitat suggest that any birds of conservation concern are likely to be present.



The following is a list of birds seen or heard within 30 meters of Lot 15:

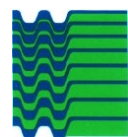
- Hairy Woodpecker
- Hermit Thrush (2)
- American Robin (2)
- Blue-headed Vireo (2)
- American Crow (2)
- Black-capped Chickadee
- Brown Creeper (2)
- Ruby-crowned Kinglet
- European Starling
- Yellow Warbler
- \*Magnolia Warbler (5)
- Yellow-rumped Warbler (2)
- Black-throated Green Warbler (2)
- Am. Redstart
- Ovenbird (3)
- Chipping Sparrow
- White-throated Sparrow (3)
- Dark-eyed Junco
- \*Purple Finch
- American Goldfinch
- Ruby-crowned Kinglet
- Chipping Sparrow

## 6 WILDLIFE SURVEY

Norval Collins conducted a wildlife survey on May 29, 2006. A rabbit was observed grazing on the site, and bear scat and deer prints were observed. No evidence of any species listed on SARA was found. Given the development of this property and the one adjacent, the Aerotech area provides poor wildlife habitat.

## 7 CONCLUSION

The Species At Risk Act (SARA) is the official list of wildlife species that are extirpated, threatened, endangered or of special concern. No species of concern, or listed in SARA were found in Lot 15, nor is the lot considered prime habitat for any of these species. The habitat assessment showed no major concerns that would affect the development of the area.



## **8 REFERENCES**

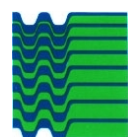
Crum, H. 1976. Mosses of the Great Lakes Forest. University of Michigan, Ann Arbor. 404 p.

NSDEL (Nova Scotia Department of Environment and Labour. 2005. Guide to Addressing Wildlife Species and Habitat in an EA Registration Document. Halifax, NS: 8p.

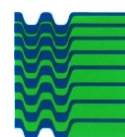
O'Neil, Shane. 2006. Personal Communication. DFO Dartmouth, Nova Scotia.

Zinck, M. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, Halifax. 1297p.

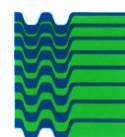
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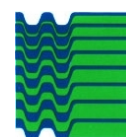
<b>Table CEFAppendix A: Number of Reports of Species of Concern with 100 km of Lot 15, Aerotech Park</b>			
<b>Family</b>	<b>Common</b>	<b>Species</b>	<b>Total</b>
Accipitridae	Northern Goshawk	<i>Accipiter gentilis</i>	15
Accipitridae Total			15
Aeshnidae	Black-Tipped Darner	<i>Aeshna tuberculifera</i>	27
	Canada Darner	<i>Aeshna canadensis</i>	38
	Common Green Darner	<i>Anax junius</i>	29
	Fawn Darner	<i>Boyeria vinosa</i>	13
	Green-Striped Darner	<i>Aeshna verticalis</i>	9
	Harlequin Darner	<i>Gomphaeschna furcillata</i>	2
	Lake Darner	<i>Aeshna eremita</i>	22
	Lance-Tipped Darner	<i>Aeshna constricta</i>	8
	Mottled Darner	<i>Aeshna clepsydra</i>	4
	Ocellated Darner	<i>Boyeria grafiana</i>	3
	Springtime Darner	<i>Basiaeschna janata</i>	37
	Subarctic Darner	<i>Aeshna subarctica</i>	5
	Zigzag Darner	<i>Aeshna sitchensis</i>	1
Aeshnidae Total			198
Alaudidae	Horned Lark	<i>Eremophila alpestris</i>	2
Alaudidae Total			2
Alcidae	Atlantic Puffin	<i>Fratercula arctica</i>	1
	Black Guillemot	<i>Cepphus grylle</i>	5
	Razorbill	<i>Alca torda</i>	2
Alcidae Total			8
Alismataceae	Narrow-Leaf Water-Plantain	<i>Alisma gramineum</i>	1
Alismataceae Total			1
Anatidae	Common Goldeneye	<i>Bucephala clangula</i>	1
	Greater Scaup	<i>Aythya marila</i>	2
	Northern Pintail	<i>Anas acuta</i>	5
	Northern Shoveler	<i>Anas clypeata</i>	1
	Red-breasted Merganser	<i>Mergus serrator</i>	7
Anatidae Total			16
Apiaceae	Black Snake-Root	<i>Sanicula odorata</i>	5
	Blunt-Fruited Sweet-Cicely	<i>Osmorhiza depauperata</i>	1
	Common Alexanders	<i>Zizia aurea</i>	3
	Eastern Lilaeopsis	<i>Lilaeopsis chinensis</i>	1
	Hemlock Parsley	<i>Conioselinum chinense</i>	2
	Smoother Sweet-Cicely	<i>Osmorhiza longistylis</i>	12
Apiaceae Total			24
Araliaceae	Dwarf Ginseng	<i>Panax trifolius</i>	3
Araliaceae Total			3
Asclepiadaceae	Swamp Milkweed	<i>Asclepias incarnata</i>	12
		<i>Asclepias incarnata</i> ssp. <i>pulchra</i>	6
Asclepiadaceae Total			18
Aspleniaceae	Green Spleenwort	<i>Asplenium trichomanes- ramosum</i>	5
	Maidenhair Spleenwort	<i>Asplenium trichomanes</i>	6
Aspleniaceae Total			11
Asteraceae	a Pussytoes	<i>Antennaria parlinii</i>	8
	Balsam Groundsel	<i>Packera paupercula</i>	4
	Beck Water-Marigold	<i>Megalodonta beckii</i>	5
	Boreal American-Aster	<i>Symphyotrichum boreale</i>	4
	Cut-Leaved Coneflower	<i>Rudbeckia laciniata</i>	1



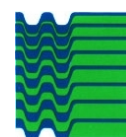
Family	Common	Species	Total
		<i>Rudbeckia laciniata</i> var. <i>gaspereauensis</i>	9
	Daisy Fleabane	<i>Erigeron hyssopifolius</i>	7
	Grass-Leaved Goldenrod	<i>Euthamia caroliniana</i>	11
	Hairy Goldenrod	<i>Solidago hispida</i>	2
	Hairy Wild Lettuce	<i>Lactuca hirsuta</i> var. <i>sanguinea</i>	4
	Kalm's Hawkweed	<i>Hieracium kalmii</i>	3
		<i>Hieracium kalmii</i> var. <i>fasciculatum</i>	1
		<i>Hieracium kalmii</i> var. <i>kalmii</i>	5
	Lindley's Aster	<i>Symphotrichum ciliolatum</i>	5
	Marsh Elder	<i>Iva frutescens</i> ssp. <i>oraria</i>	8
	Narrow-Leaf Fragrant Golden-Rod	<i>Euthamia galetorum</i>	8
	Panicled Hawkweed	<i>Hieracium paniculatum</i>	1
	Philadelphia Fleabane	<i>Erigeron philadelphicus</i>	3
	Purple-Stem Swamp Beggar-Ticks	<i>Bidens connata</i>	7
	Robinson's Hawkweed	<i>Hieracium robinsonii</i>	2
	Seabeach Groundsel	<i>Senecio pseudoarnica</i>	4
	Tradescant Aster	<i>Symphotrichum tradescantii</i>	1
	Umbellate Hawkweed	<i>Hieracium umbellatum</i>	4
	Wavy-leaf American-Aster	<i>Symphotrichum undulatum</i>	10
Asteraceae Total			117
Balsaminaceae	Pale Jewel-Weed	<i>Impatiens pallida</i>	2
Balsaminaceae Total			2
Berberidaceae	Blue Cohosh	<i>Caulophyllum thalictroides</i>	14
Berberidaceae Total			14
Boraginaceae	Northern Wild Comfrey	<i>Cynoglossum virginianum</i> var. <i>boreale</i>	2
	Wild Comfrey	<i>Cynoglossum virginianum</i>	2
Boraginaceae Total			4
Brassicaceae	Drummond Rockcress	<i>Arabis drummondii</i>	5
	Hairy Rock-Cress	<i>Arabis hirsuta</i> var. <i>pyncocarpa</i>	1
	Large Toothwort	<i>Cardamine maxima</i>	1
	Rock Whitlow-Grass	<i>Draba arabisans</i>	3
		<i>Draba glabella</i>	2
	Small-Flower Bitter-Cress	<i>Cardamine parviflora</i>	3
		<i>Cardamine parviflora</i> var. <i>arenicola</i>	1
	Tower-Mustard	<i>Arabis glabra</i>	1
Brassicaceae Total			17
Calopterygidae	River Jewelwing	<i>Calopteryx aequabilis</i>	29
	Superb Jewelwing	<i>Calopteryx amata</i>	9
Calopterygidae Total			38
Campanulaceae	Marsh Bellflower	<i>Campanula aparinoides</i>	15
	Pale-Spiked Lobelia	<i>Lobelia spicata</i>	4
Campanulaceae Total			19
Caprifoliaceae	Coffee Tinker's-Weed	<i>Triosteum aurantiacum</i>	9
Caprifoliaceae Total			9
Caprimulgidae	Whip-Poor-Will	<i>Caprimulgus vociferus</i>	5
Caprimulgidae Total			5



Family	Common	Species	Total
Cardinalidae	Indigo Bunting	<i>Passerina cyanea</i>	3
	Northern Cardinal	<i>Cardinalis cardinalis</i>	2
Cardinalidae Total			5
Caryophyllaceae	Creeping Sandwort	<i>Stellaria humifusa</i>	3
	Longleaf Stitchwort	<i>Stellaria longifolia</i>	6
	Mountain Sandwort	<i>Minuartia groenlandica</i>	9
Caryophyllaceae Total			18
Ceratophyllaceae	Common Hornwort	<i>Ceratophyllum demersum</i>	1
Ceratophyllaceae Total			1
Cervidae	Moose	<i>Alces alces</i>	5
Cervidae Total			5
Charadriidae	Piping Plover	<i>Charadrius melodus</i>	12
	Semipalmated Plover	<i>Charadrius semipalmatus</i>	1
Charadriidae Total			13
Chenopodiaceae	American Sea-Blite	<i>Suaeda calceoliformis</i>	3
	Maritime Saltbush	<i>Atriplex acadiensis</i>	1
	Roland's Sea-Blite	<i>Suaeda rolandii</i>	1
Chenopodiaceae Total			5
Cistaceae	Canada Frostweed	<i>Helianthemum canadense</i>	2
	Golden-Heather	<i>Hudsonia ericoides</i>	5
Cistaceae Total			7
Clethraceae	Coast Pepper-Bush	<i>Clethra alnifolia</i>	1
Clethraceae Total			1
Clusiaceae	Disguised St. John's-Wort	<i>Hypericum dissimulatum</i>	2
	Larger Canadian St. John's Wort	<i>Hypericum majus</i>	3
Clusiaceae Total			5
Coenagrionidae	a Bluet Damselfly	<i>Enallagma vernale</i>	6
	Aurora Damsel	<i>Chromagrion conditum</i>	19
	Azure Bluet	<i>Enallagma aspersum</i>	11
	Boreal Bluet	<i>Enallagma boreale</i>	19
	Eastern Red Damsel	<i>Amphiagrion saucium</i>	1
	Familiar Bluet	<i>Enallagma civile</i>	15
	Fragile Forktail	<i>Ischnura posita</i>	9
	Hagen's Bluet	<i>Enallagma hageni</i>	27
	Little Bluet	<i>Enallagma minusculum</i>	7
	Marsh Bluet	<i>Enallagma ebrium</i>	26
	Orange Bluet	<i>Enallagma signatum</i>	1
	Powdered Dancer	<i>Argia moesta</i>	12
	Sedge Sprite	<i>Nehalennia irene</i>	18
	Sphagnum Sprite	<i>Nehalennia gracilis</i>	6
	Stream Bluet	<i>Enallagma exsulans</i>	7
	Taiga Bluet	<i>Coenagrion resolutum</i>	1
	Tule Bluet	<i>Enallagma carunculatum</i>	1
Variable Dancer	<i>Argia fumipennis violacea</i>	29	
Vesper Bluet	<i>Enallagma vesperum</i>	1	
Coenagrionidae Total			216
Cordulegasteridae	Delta-Spotted Spiketail	<i>Cordulegaster diastatops</i>	5
	Twin-Spotted Spiketail	<i>Cordulegaster maculata</i>	16
Cordulegasteridae Total			21
Corduliidae	American Emerald	<i>Cordulia shurtleffii</i>	25
	Beaverpond Baskettail	<i>Epitheca canis</i>	21
	Brush-Tipped Emerald	<i>Somatochlora walshii</i>	12
	Clamp-Tipped Emerald	<i>Somatochlora tenebrosa</i>	4
	Common Baskettail	<i>Epitheca cynosura</i>	15

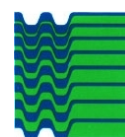


Family	Common	Species	Total
	Delicate Emerald	<i>Somatochlora franklini</i>	2
	Ebony Boghaunter	<i>Williamsonia fletcheri</i>	1
	Forcipate Emerald	<i>Somatochlora forcipata</i>	2
	Incurvate Emerald	<i>Somatochlora incurvata</i>	13
	Lake Emerald	<i>Somatochlora cingulata</i>	5
	Ocellated Emerald	<i>Somatochlora minor</i>	7
	Petite Emerald	<i>Dorocordulia lepida</i>	17
	Prince Baskettail	<i>Epithea princeps</i>	5
	Racket-Tailed Emerald	<i>Dorocordulia libera</i>	5
	Ski-Tailed Emerald	<i>Somatochlora elongata</i>	12
	Spiny Baskettail	<i>Epithea spinigera</i>	20
	Uhler's Sundragon	<i>Helocordulia uhleri</i>	12
Corduliidae Total			178
Crassulaceae	Water Pigmy-Weed	<i>Crassula aquatica</i>	1
Crassulaceae Total			1
Cuculidae	Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	6
Cuculidae Total			6
Cupressaceae	Northern White Cedar	<i>Thuja occidentalis</i>	7
Cupressaceae Total			7
Cuscutaceae	Button-Bush Dodder	<i>Cuscuta cephalanthi</i>	1
	Field Dodder	<i>Cuscuta pentagona</i>	1
Cuscutaceae Total			2
Cyperaceae	A Sedge	<i>Carex houghtoniana</i>	1
	Bebb's Sedge	<i>Carex bebbii</i>	3
	Black Sedge	<i>Carex atratiformis</i>	1
	Blunt Broom Sedge	<i>Carex tribuloides</i>	1
	Bristly Sedge	<i>Carex comosa</i>	5
	Brome-Like Sedge	<i>Carex bromoides</i>	25
	Chestnut-Colored Sedge	<i>Carex castanea</i>	1
	Cloud Sedge	<i>Carex haydenii</i>	2
	Crowded Sedge	<i>Carex adusta</i>	6
	Dry-Spike Sedge	<i>Carex foenea</i>	4
	Ebony Sedge	<i>Carex eburnea</i>	2
	Elk Sedge	<i>Carex garberi</i>	1
	Emmons Sedge	<i>Carex albicans</i> var. <i>emmonsii</i>	2
	Hay Sedge	<i>Carex argyrantha</i>	2
	Hop Sedge	<i>Carex lupulina</i>	2
	Livid Sedge	<i>Carex livida</i> var. <i>radicalis</i>	1
	Loose-Flowered Sedge	<i>Carex laxiflora</i> var. <i>laxiflora</i>	2
	Northeastern Sedge	<i>Carex cryptolepis</i>	1
	Ovate Spikerush	<i>Eleocharis ovata</i>	3
	Pennsylvania Sedge	<i>Carex pensylvanica</i>	2
	Plantain-Leaved Sedge	<i>Carex plantaginea</i>	2
	Porcupine Sedge	<i>Carex hystericina</i>	5
	Prairie Sedge	<i>Carex prairea</i>	1
	Pubescent Sedge	<i>Carex hirtifolia</i>	18
	Rosy Sedge	<i>Carex rosea</i>	10
	Slender Cotton-Grass	<i>Eriophorum gracile</i>	6
	Slender Sedge	<i>Carex tenera</i>	4
	Slender Spike-Rush	<i>Eleocharis nitida</i>	9
	Stalked Bulrush	<i>Scirpus pedicellatus</i>	1
	Toothed Sedge	<i>Cyperus dentatus</i>	1
	Tuckerman Sedge	<i>Carex tuckermanii</i>	4
	White-Tinged Sedge	<i>Carex peckii</i>	2

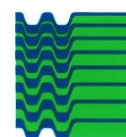




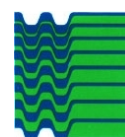
Family	Common	Species	Total
	Woolly Sedge	<i>Carex pellita</i>	1
Cyperaceae Total			131
Dermochelyidae	Leatherback Turtle; Tinglar	<i>Dermochelys coriacea</i>	2
Dermochelyidae Total			2
Dryopteridaceae	A Bladderfern	<i>Cystopteris tenuis</i>	13
	Braun's Holly-Fern	<i>Polystichum braunii</i>	12
	Bulblet Fern	<i>Cystopteris bulbifera</i>	11
	Fragrant Fern	<i>Dryopteris fragrans</i> var. <i>remotiuscula</i>	10
	Smooth Woodsia	<i>Woodsia glabella</i>	1
Dryopteridaceae Total			47
Elaeagnaceae	Canada Buffalo-Berry	<i>Shepherdia canadensis</i>	7
Elaeagnaceae Total			7
Emberizidae	Nelson's Sharp-tailed Sparrow	<i>Ammodramus nelsoni</i>	23
	Vesper Sparrow	<i>Pooecetes gramineus</i>	13
Emberizidae Total			36
Empetraceae	Purple Crowberry	<i>Empetrum eamesii</i> ssp. <i>atropurpureum</i>	1
		<i>Empetrum eamesii</i> ssp. <i>eamesii</i>	1
	Rock Crowberry	<i>Empetrum eamesii</i>	6
Empetraceae Total			8
Emydidae	Wood Turtle	<i>Glyptemys insculpta</i>	69
Emydidae Total			69
Equisetaceae	Dwarf Scouring Rush	<i>Equisetum scirpoides</i>	15
	Marsh Horsetail	<i>Equisetum palustre</i>	1
	Meadow Horsetail	<i>Equisetum pratense</i>	9
	Variiegated Horsetail	<i>Equisetum variegatum</i>	3
Equisetaceae Total			28
Ericaceae	Alpine Blueberry	<i>Vaccinium uliginosum</i>	2
	Dwarf Blueberry	<i>Vaccinium caespitosum</i>	6
	Northern Blueberry	<i>Vaccinium boreale</i>	1
Ericaceae Total			9
Fabaceae	Large Tick-Trefoil	<i>Desmodium glutinosum</i>	11
	Showy Tick-Trefoil	<i>Desmodium canadense</i>	3
Fabaceae Total			14
Falconidae	American Peregrine Falcon	<i>Falco peregrinus anatum</i>	3
	Merlin	<i>Falco columbarius</i>	16
Falconidae Total			19
Felidae	Lynx	<i>Lynx canadensis</i>	1
Felidae Total			1
Fringillidae	Red Crossbill	<i>Loxia curvirostra</i>	18
Fringillidae Total			18
Gentianaceae	Yellow Screwstem	<i>Bartonia virginica</i>	4
Gentianaceae Total			4
Geraniaceae	Bicknell Northern Crane's-Bill	<i>Geranium bicknellii</i>	1
Geraniaceae Total			1
Gomphidae	Beaverpond Clubtail	<i>Gomphus borealis</i>	6
	Black-Shouldered Spinyleg	<i>Dromogomphus spinosus</i>	13
	Brook Snaketail	<i>Ophiogomphus aspersus</i>	3
	Dragonhunter	<i>Hagenius brevistylus</i>	23
	Dusky Clubtail	<i>Gomphus spicatus</i>	16
	Harpoon Clubtail	<i>Gomphus descriptus</i>	2



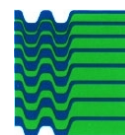
Family	Common	Species	Total
	Lancet Clubtail	<i>Gomphus exilis</i>	48
	Least Clubtail	<i>Stylogomphus albistylus</i>	15
	Mustached Clubtail	<i>Gomphus adelphus</i>	5
	Northern Pygmy Clubtail	<i>Lanthus parvulus</i>	1
	Rifle Snaketail	<i>Ophiogomphus carolus</i>	13
	Rusty Snaketail	<i>Ophiogomphus rupinsulensis</i>	2
	Skillet Clubtail	<i>Gomphus ventricosus</i>	2
	Zebra Clubtail	<i>Stylurus scudderi</i>	2
Gomphidae Total			151
Grossulariaceae	Wild Black Currant	<i>Ribes americanum</i>	3
Grossulariaceae Total			3
Haloragaceae	Comb-Leaved Mermaid-Weed	<i>Proserpinaca pectinata</i>	4
	Farwell's Water-Milfoil	<i>Myriophyllum farwellii</i>	4
	Marsh Mermaid-Weed	<i>Proserpinaca palustris</i>	1
	Whorled Water-Milfoil	<i>Myriophyllum verticillatum</i>	1
Haloragaceae Total			10
Hirundinidae	Purple Martin	<i>Progne subis</i>	2
Hirundinidae Total			2
Hydrocharitaceae	Broad Waterweed	<i>Elodea canadensis</i>	1
	Eel-Grass	<i>Vallisneria americana</i>	3
Hydrocharitaceae Total			4
Icteridae	Baltimore Oriole	<i>Icterus galbula</i>	15
	Bobolink	<i>Dolichonyx oryzivorus</i>	94
	Eastern Meadowlark	<i>Sturnella magna</i>	1
	Rusty Blackbird	<i>Euphagus carolinus</i>	59
Icteridae Total			169
Iridaceae	Coastal-Plain Blue-Eyed-Grass	<i>Sisyrinchium fuscatum</i>	1
	Pointed Blue-Eyed-Grass	<i>Sisyrinchium angustifolium</i>	1
Iridaceae Total			2
Isoetaceae	Acadian Quillwort	<i>Isoetes acadiensis</i>	4
	Lake Quillwort	<i>Isoetes lacustris</i>	3
	Prototype Quillwort	<i>Isoetes prototypus</i>	3
Isoetaceae Total			10
Juncaceae	Dudley's Rush	<i>Juncus dudleyi</i>	4
	Greene's Rush	<i>Juncus greenei</i>	2
	Knotted Rush	<i>Juncus nodosus</i>	3
	Secund Rush	<i>Juncus secundus</i>	1
	Small-Flowered Wood-Rush	<i>Luzula parviflora</i>	2
	Woods-Rush	<i>Juncus subcaudatus</i>	4
		<i>Juncus subcaudatus</i> var. <i>planisepalus</i>	1
Juncaceae Total			17
Lamiaceae	American Germander	<i>Teucrium canadense</i>	2
	American Pennyroyal	<i>Hedeoma pulegioides</i>	12
Lamiaceae Total			14
Laridae	Arctic Tern	<i>Sterna paradisaea</i>	21
	Black-headed Gull	<i>Larus ridibundus</i>	1
	Common Tern	<i>Sterna hirundo</i>	43
	Roseate Tern	<i>Sterna dougallii</i>	15
Laridae Total			80
Lentibulariaceae	Humped Bladderwort	<i>Utricularia gibba</i>	2



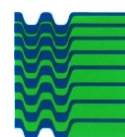
Family	Common	Species	Total
	Small Swollen Bladderwort	<i>Utricularia radiata</i>	6
Lentibulariaceae Total			8
Lestidae	Amber-Winged Spreadwing	<i>Lestes eurinus</i>	9
	Emerald Spreadwing	<i>Lestes dryas</i>	12
	Lyre-Tipped Spreadwing	<i>Lestes unguiculatus</i>	8
	Slender Spreadwing	<i>Lestes rectangularis</i>	20
	Spotted Spreadwing	<i>Lestes congener</i>	19
	Swamp Spreadwing	<i>Lestes vigilax</i>	5
	Sweetflag Spreadwing	<i>Lestes forcipatus</i>	8
Lestidae Total			81
Libellulidae	Band-Winged Meadowhawk	<i>Sympetrum semicinctorum</i>	29
	Calico Pennant	<i>Celithemis elisa</i>	7
	Chalk-Fronted Corporal	<i>Ladona julia</i>	26
	Common Whitetail	<i>Plathemis lydia</i>	31
	Crimson-Ringed Whiteface	<i>Leucorrhinia glacialis</i>	16
	Dot-Tailed Whiteface	<i>Leucorrhinia intacta</i>	35
	Elfin Skimmer	<i>Nannothemis bella</i>	7
	Frosted Whiteface	<i>Leucorrhinia frigida</i>	17
	Hudsonian Whiteface	<i>Leucorrhinia hudsonica</i>	34
	Martha's Pennant	<i>Celithemis martha</i>	4
	Red-Waisted Whiteface	<i>Leucorrhinia proxima</i>	13
	Ruby Meadowhawk	<i>Sympetrum rubicundulum</i>	5
	Saffron-Winged Meadowhawk	<i>Sympetrum costiferum</i>	20
	Slaty Skimmer	<i>Libellula incesta</i>	8
	Twelve-Spotted Skimmer	<i>Libellula pulchella</i>	13
	White Corporal	<i>Ladona exusta</i>	23
	White-Faced Meadowhawk	<i>Sympetrum obtrusum</i>	18
	Widow Skimmer	<i>Libellula luctuosa</i>	1
	Yellow-Legged Meadowhawk	<i>Sympetrum vicinum</i>	31
Libellulidae Total			338
Liliaceae	Canada Lily	<i>Lilium canadense</i>	24
	Golden Crest	<i>Lophiola aurea</i>	1
	Ill-Scent Trillium	<i>Trillium erectum</i>	28
	Large-Flower Trillium	<i>Trillium grandiflorum</i>	1
	Small White Leek	<i>Allium tricoccum</i>	7
	Wild Chives	<i>Allium schoenoprasum var. sibiricum</i>	1
Liliaceae Total			62
Limnanthaceae	False Mermaid-Weed	<i>Floerkea proserpinacoides</i>	4
Limnanthaceae Total			4
Lycopodiaceae	Alaskan Clubmoss	<i>Lycopodium sitchense</i>	2
	Fir Clubmoss	<i>Huperzia selago</i>	15
	Ground-Fir	<i>Lycopodium sabinifolium</i>	2
	Hickey's Clubmoss	<i>Lycopodium hickeyi</i>	3
	Southern Bog Clubmoss	<i>Lycopodiella appressa</i>	4
	Trailing Clubmoss	<i>Lycopodium complanatum</i>	3
Lycopodiaceae Total			29
Macromiidae	Illinois River Cruiser	<i>Macromia illinoiensis</i>	16
	Stream Cruiser	<i>Didymops transversa</i>	23
Macromiidae Total			39
Melastomataceae	Virginia Meadow-Beauty	<i>Rhexia virginica</i>	3
Melastomataceae Total			3



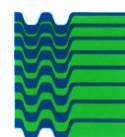
Family	Common	Species	Total
Mimidae	Brown Thrasher	<i>Toxostoma rufum</i>	1
	Northern Mockingbird	<i>Mimus polyglottos</i>	16
Mimidae Total			17
Mustelidae	Fisher	<i>Martes pennanti</i>	1
Mustelidae Total			1
Najadaceae	Thread-Like Naiad	<i>Najas gracillima</i>	1
Najadaceae Total			1
Oleaceae	Black Ash	<i>Fraxinus nigra</i>	16
	Green Ash	<i>Fraxinus pennsylvanica</i>	2
Oleaceae Total			18
Onagraceae	Downy Willow-Herb	<i>Epilobium strictum</i>	1
	Narrow-Leaved Sundrops	<i>Oenothera fruticosa</i>	2
	Purple-Leaf Willow-Herb	<i>Epilobium coloratum</i>	2
	Shrubby Sundrops	<i>Oenothera fruticosa</i> ssp. <i>glauca</i>	7
Onagraceae Total			12
Ophioglossaceae	Adder's Tongue	<i>Ophioglossum pusillum</i>	5
	Cutleaf Grape-Fern	<i>Botrychium dissectum</i>	6
	Lance-Leaf Grape-Fern	<i>Botrychium lanceolatum</i> var. <i>angustisegmentum</i>	2
	Least Grape-Fern	<i>Botrychium simplex</i>	3
	Moonwort Grape-Fern	<i>Botrychium lunaria</i>	3
	Triangle Grape-Fern	<i>Botrychium lanceolatum</i>	1
Ophioglossaceae Total			20
Orchidaceae	Broad-Leaved Twayblade	<i>Listera convallarioides</i>	3
	Case's Ladies'-Tresses	<i>Spiranthes casei</i> var. <i>casei</i>	1
	Checkered Rattlesnake-Plantain	<i>Goodyera tessellata</i>	7
	Downy Rattlesnake-Plantain	<i>Goodyera pubescens</i>	5
	Dwarf Rattlesnake-Plantain	<i>Goodyera repens</i>	4
	Early Coralroot	<i>Corallorhiza trifida</i>	16
	Hooded Ladies'-Tresses	<i>Spiranthes romanzoffiana</i>	6
	Hooker Orchis	<i>Platanthera hookeri</i>	11
	Large Purple-Fringe Orchis	<i>Platanthera grandiflora</i>	12
	Large Roundleaf Orchid	<i>Platanthera orbiculata</i>	7
	Large Round-Leaved Orchid	<i>Platanthera macrophylla</i>	6
	Large Yellow Lady's-Slipper	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	8
	Loesel's Twayblade	<i>Liparis loeselii</i>	3
	Long-Bract Green Orchis	<i>Coeloglossum viride</i> var. <i>virescens</i>	2
	Pale Green Orchid	<i>Platanthera flava</i> var. <i>herbiola</i>	2
	Ram's-Head Lady's-Slipper	<i>Cypripedium arietinum</i>	10
	Shining Ladies'-Tresses	<i>Spiranthes lucida</i>	5
	Showy Lady's-Slipper	<i>Cypripedium reginae</i>	6
	Small Yellow Lady's-Slipper	<i>Cypripedium parviflorum</i>	8
		<i>Cypripedium parviflorum</i> var. <i>makasin</i>	4
	Southern Rein Orchid	<i>Platanthera flava</i> var. <i>flava</i>	2
	Southern Rein-Orchid	<i>Platanthera flava</i>	2
	Southern Twayblade	<i>Listera australis</i>	4
	White Adder's-Mouth	<i>Malaxis brachypoda</i>	4



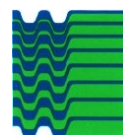
Family	Common	Species	Total
	Yellow Nodding Ladies'-Tresses	<i>Spiranthes ochroleuca</i>	5
Orchidaceae Total			143
Orobanchaceae	Squaw-Root	<i>Conopholis americana</i>	5
Orobanchaceae Total			5
Papaveraceae	Bloodroot	<i>Sanguinaria canadensis</i>	12
Papaveraceae Total			12
Paridae	Boreal Chickadee	<i>Poecile hudsonica</i>	110
Paridae Total			110
Plantaginaceae	Black-Seed Plantain	<i>Plantago rugelii</i>	6
Plantaginaceae Total			6
Plethodontidae	Four-toed Salamander	<i>Hemidactylum scutatum</i>	25
Plethodontidae Total			25
Poaceae	Bentgrass	<i>Calamagrostis stricta</i> var. <i>stricta</i>	1
	Bottlebrush Grass	<i>Elymus hystrix</i> var. <i>bigeloviana</i>	3
	Bottle-Brush Grass	<i>Elymus hystrix</i>	2
	Canada Mountain-Ricegrass	<i>Piptatherum canadense</i>	4
	Deer-Tongue Witchgrass	<i>Dichanthelium clandestinum</i>	6
	Narrow False Oats	<i>Trisetum spicatum</i>	2
	Nodding Fescue	<i>Festuca subverticillata</i>	7
	Panic Grass	<i>Dichanthelium acuminatum</i> var. <i>lindheimeri</i>	2
	Philadelphia Panic Grass	<i>Panicum philadelphicum</i>	6
	Salt Marsh Goosegrass	<i>Puccinellia fasciculata</i>	3
	Short-Awn Foxtail	<i>Alopecurus aequalis</i>	11
	Slender Dichanthelium	<i>Dichanthelium xanthophysum</i>	3
	Slender Wedge Grass	<i>Sphenopholis intermedia</i>	14
	Slim-Leaf Witchgrass	<i>Dichanthelium linearifolium</i>	5
	Tall Millet-Grass	<i>Milium effusum</i>	2
		<i>Milium effusum</i> var. <i>cisatlanticum</i>	5
	White Bluegrass	<i>Poa glauca</i>	4
	Wiegand's Wild Rye	<i>Elymus wiegandii</i>	4
Poaceae Total			84
Podostemaceae	Threadfoot	<i>Podostemum ceratophyllum</i>	1
Podostemaceae Total			1
Polygalaceae	Field Milkwort	<i>Polygala sanguinea</i>	8
	Racemed Milkwort	<i>Polygala polygama</i>	1
Polygalaceae Total			9
Polygonaceae	Climbing False-Buckwheat	<i>Polygonum scandens</i>	7
	Halberd-Leaf Tearthumb	<i>Polygonum arifolium</i>	3
	Pennsylvania Smartweed	<i>Polygonum pennsylvanicum</i>	13
	Pondshore Knotweed	<i>Polygonum raii</i>	1
	Small's Knotweed	<i>Polygonum buxiforme</i>	6
	Willow Dock	<i>Rumex salicifolius</i>	6
		<i>Rumex salicifolius</i> var. <i>mexicanus</i>	1
Polygonaceae Total			37
Polypodiaceae	Appalachian Polypody	<i>Polypodium appalachianum</i>	4
Polypodiaceae Total			4



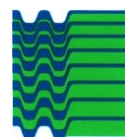
Family	Common	Species	Total
Portulacaceae	Fountain Miner's-Lettuce	<i>Montia fontana</i>	1
Portulacaceae Total			1
Potamogetonaceae	Algae-Like Pondweed	<i>Potamogeton confervoides</i>	2
	Blunt-Leaf Pondweed	<i>Potamogeton obtusifolius</i>	1
	Flatstem Pondweed	<i>Potamogeton zosteriformis</i>	9
	Fries' Pondweed	<i>Potamogeton friesii</i>	4
	Northern Slender Pondweed	<i>Stuckenia filiformis</i> ssp. <i>alpina</i>	1
	Redhead Grass	<i>Potamogeton richardsonii</i>	6
	Spotted Pondweed	<i>Potamogeton pulcher</i>	5
	White-Stem Pondweed	<i>Potamogeton praelongus</i>	5
Potamogetonaceae Total			33
Pottiaceae	a Moss	<i>Desmatodon obtusifolius</i>	1
Pottiaceae Total			1
Primulaceae	Bird's-Eye Primrose	<i>Primula laurentiana</i>	4
		<i>Primula mistassinica</i>	4
	Water Loosestrife	<i>Lysimachia thyrsoiflora</i>	4
Primulaceae Total			12
Pteridaceae	Fragile Rockbrake	<i>Cryptogramma stelleri</i>	2
	Northern Maidenhair-Fern	<i>Adiantum pedatum</i>	8
Pteridaceae Total			10
Pyrolaceae	Lesser Wintergreen	<i>Pyrola minor</i>	1
	Pink Wintergreen	<i>Pyrola asarifolia</i>	8
Pyrolaceae Total			9
Rallidae	Common Moorhen	<i>Gallinula chloropus</i>	2
	Virginia Rail	<i>Rallus limicola</i>	4
Rallidae Total			6
Ranunculaceae	Bristly Crowfoot	<i>Ranunculus pensylvanicus</i>	3
	Canada Anemone	<i>Anemone canadensis</i>	3
	Cursed Crowfoot	<i>Ranunculus sceleratus</i>	3
	Greater Creeping Spearwort	<i>Ranunculus flammula</i> var. <i>flammula</i>	4
	River Anemone	<i>Anemone virginiana</i> var. <i>alba</i>	3
		<i>Anemone virginiana</i> var. <i>virginiana</i>	2
	Round-Leaved Liverleaf	<i>Hepatica nobilis</i> var. <i>obtusata</i>	8
	Round-Lobe Hepatica	<i>Hepatica nobilis</i>	8
	Small Yellow Water-Crowfoot	<i>Ranunculus gmelinii</i>	1
	Virginia Anemone	<i>Anemone virginiana</i>	4
	Wood Anemone	<i>Anemone quinquefolia</i>	3
		<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>	4
Ranunculaceae Total			46
Rhamnaceae	Alderleaf Buckthorn	<i>Rhamnus alnifolia</i>	4
Rhamnaceae Total			4
Rosaceae	A Hawthorn	<i>Crataegus robinsonii</i>	1
		<i>Crataegus submollis</i>	6
	Fernald Serviceberry	<i>Amelanchier fernaldii</i>	1
	Nantucket Shadbush	<i>Amelanchier nantucketensis</i>	1
	Pennsylvania Blackberry	<i>Rubus pensilvanicus</i>	2
	Tall Hairy Groovebur	<i>Agrimonia gryposepala</i>	8
Rosaceae Total			19



Family	Common	Species	Total
Rubiaceae	Northern Bedstraw	<i>Galium boreale</i>	7
Rubiaceae Total			7
Salicaceae	Bog Willow	<i>Salix pedicellaris</i>	3
	Meadow Willow	<i>Salix petiolaris</i>	5
	Silky Willow	<i>Salix sericea</i>	4
Salicaceae Total			12
Salmonidae	Atlantic Salmon	<i>Salmo salar</i>	10
	Atlantic Whitefish	<i>Coregonus huntsmani</i>	1
Salmonidae Total			11
Santalaceae	Northern Comandra	<i>Geocaulon lividum</i>	2
Santalaceae Total			2
Saxifragaceae	a White Mountain Saxifrage	<i>Saxifraga paniculata</i> ssp. <i>neogaea</i>	4
	Heart-Leaved Foam-Flower	<i>Tiarella cordifolia</i>	11
Saxifragaceae Total			15
Schizaeaceae	Curly-Grass Fern	<i>Schizaea pusilla</i>	5
Schizaeaceae Total			5
Sciuridae	Southern Flying Squirrel	<i>Glaucomys volans</i>	3
Sciuridae Total			3
Scolopacidae	Greater Yellowlegs	<i>Tringa melanoleuca</i>	4
	Least Sandpiper	<i>Calidris minutilla</i>	1
	Purple Sandpiper	<i>Calidris maritima</i>	3
	Upland Sandpiper	<i>Bartramia longicauda</i>	1
Scolopacidae Total			9
Scrophulariaceae	Clammy Hedge-Hyssop	<i>Gratiola neglecta</i>	2
	Mudwort	<i>Limosella australis</i>	3
	Yellow-Seed False-Pimpernel	<i>Lindernia dubia</i>	15
Scrophulariaceae Total			20
Soricidae	Long-Tailed or Rock Shrew	<i>Sorex dispar</i>	1
Soricidae Total			1
Sparganiaceae	Floating Bur-Reed	<i>Sparganium fluctuans</i>	4
	Small Bur-Reed	<i>Sparganium natans</i>	7
Sparganiaceae Total			11
Strigidae	Long-eared Owl	<i>Asio otus</i>	2
	Short-eared Owl	<i>Asio flammeus</i>	1
Strigidae Total			3
Thraupidae	Scarlet Tanager	<i>Piranga olivacea</i>	8
Thraupidae Total			8
Thymelaeaceae	Eastern Leatherwood	<i>Dirca palustris</i>	7
Thymelaeaceae Total			7
Timmiaceae	a Moss	<i>Timmia megapolitana</i>	1
Timmiaceae Total			1
Turdidae	Eastern Bluebird	<i>Sialia sialis</i>	7
	Wood Thrush	<i>Hylocichla mustelina</i>	6
Turdidae Total			13
Tyrannidae	Eastern Phoebe	<i>Sayornis phoebe</i>	12
	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	7
Tyrannidae Total			19
Unionidae	Brook Floater	<i>Alasmidonta varicosa</i>	4
	Eastern Lampmussel	<i>Lampsilis radiata</i>	16
	Tidewater Mucket; Delicate Lampmussel	<i>Leptodea ochracea</i>	2
	Triangle Floater; Heavy-toothed Wedgemussel	<i>Alasmidonta undulata</i>	10



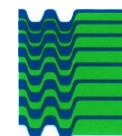
Family	Common	Species	Total
Unionidae Total			32
Urticaceae	Canada Clearweed	<i>Pilea pumila</i>	2
	Wood Nettle	<i>Laportea canadensis</i>	8
Urticaceae Total			10
Verbenaceae	Blue Vervain	<i>Verbena hastata</i>	36
Verbenaceae Total			36
Vespertilionidae	Eastern Pipistrelle	<i>Pipistrellus subflavus</i>	2
	Hoary Bat	<i>Lasiurus cinereus</i>	2
Vespertilionidae Total			4
Violaceae	Arrow-Leaved Violet	<i>Viola sagittata</i>	1
		<i>Viola sagittata var. ovata</i>	1
	Canada Violet	<i>Viola canadensis</i>	1
	Northern Bog Violet	<i>Viola nephrophylla</i>	7
Violaceae Total			10
Vireonidae	Philadelphia Vireo	<i>Vireo philadelphicus</i>	1
	Warbling Vireo	<i>Vireo gilvus</i>	1
Vireonidae Total			2
Grand Total			3319



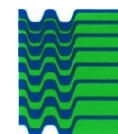


**Table CEFA Appendix B:  
Distance of Closest Report of Species of Concern to Lot 15 and Habitat Preference for Reports Within 10 km**

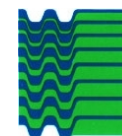
Distance from Lot 15	Species	Common Name	Habitat Summary
0Km +/-1	<i>Aeshna canadensis</i>	Canada Darner	Habitat: quarry pond, moderate size, lentic, freshwater, still
0Km +/-1	<i>Leucorrhinia frigida</i>	Frosted Whiteface	Habitat: quarry pond, moderate size, lentic, freshwater, still
0Km +/-1	<i>Leucorrhinia glacialis</i>	Crimson-Ringed Whiteface	Habitat: quarry pond, moderate size, lentic, freshwater, still
0Km +/-1	<i>Leucorrhinia intacta</i>	Dot-Tailed Whiteface	Habitat: quarry pond, moderate size, lentic, freshwater, still
0Km +/-1	<i>Libellula pulchella</i>	Twelve-Spotted Skimmer	Habitat: quarry pond, moderate size, lentic, freshwater, still
1Km +/-5	<i>Liparis loeselii</i>	Loesel's Twayblade	Habitat: sphagnum mat on edge of moist roadside ditch
2Km +/-0.1	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Habitat: roadside sphagnum pool, alders.
2Km +/-0.1	<i>Cordulia shurtleffii</i>	American Emerald	Habitat: lake, small size, lentic, freshwater, slow
2Km +/-0.1	<i>Carex pensylvanica</i>	Pennsylvania Sedge	Habitat: mixed woods.
2Km +/-0.1	<i>Listera australis</i>	Southern Twayblade	Habitat: shaded, moist sphagnum moss; sphagnous woods.
2Km +/-10	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Habitat: varied
2Km +/-10	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Habitat: varied
5Km +/-0.1	<i>Gomphus borealis</i>	Beaverpond Clubtail	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Gomphus exilis</i>	Lancet Clubtail	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Gomphus spicatus</i>	Dusky Clubtail	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Hagenius brevistylus</i>	Dragonhunter	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Hagenius brevistylus</i>	Dragonhunter	Habitat: brook, moderate size, lotic, freshwater, fast
5Km +/-0.1	<i>Anax junius</i>	Common Green Darner	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Basiaeschna janata</i>	Springtime Darner	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Didymops transversa</i>	Stream Cruiser	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Cordulia shurtleffii</i>	American Emerald	Habitat: pond, small size, lentic, freshwater, slow
5Km +/-0.1	<i>Epiptera canis</i>	Beaverpond Baskettail	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Epiptera cynosura</i>	Common Baskettail	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Somatochlora elongata</i>	Ski-Tailed Emerald	Habitat: brook, moderate size, lotic, freshwater, fast
5Km +/-0.1	<i>Plathemis lydia</i>	Common Whitetail	Habitat: brook, moderate size, lotic, freshwater, fast
5Km +/-0.1	<i>Enallagma civile</i>	Familiar Bluet	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Enallagma ebrium</i>	Marsh Bluet	Habitat: lake, moderate size, lentic, freshwater, slow
5Km +/-0.1	<i>Nehalennia irene</i>	Sedge Sprite	Habitat: lake, moderate size, lentic, freshwater, slow
6Km +/-0.1	<i>Gomphus exilis</i>	Lancet Clubtail	Habitat: lake, large size, lentic, freshwater, slow



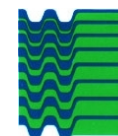
Distance from Lot 15	Species	Common Name	Habitat Summary
6Km +/-0.1	<i>Hagenius brevistylus</i>	Dragonhunter	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Stylogomphus albistylus</i>	Least Clubtail	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Anax junius</i>	Common Green Darner	Habitat: lake, large size, lentic, freshwater, slow
6Km +/-0.1	<i>Basiaeschna janata</i>	Springtime Darner	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Macromia illinoensis</i>	Illinois River Cruiser	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Cordulia shurtleffii</i>	American Emerald	Habitat: lake, large size, lentic, freshwater, slow
6Km +/-0.1	<i>Epiptera cynosura</i>	Common Baskettail	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Leucorrhinia frigida</i>	Frosted Whiteface	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Leucorrhinia intacta</i>	Dot-Tailed Whiteface	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Ladona exusta</i>	White Corporal	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Sympetrum semicinctum</i>	Band-Winged Meadowhawk	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Calopteryx aequabilis</i>	River Jewelwing	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Argia fumipennis violacea</i>	Variable Dancer	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-0.1	<i>Enallagma ebrium</i>	Marsh Bluet	Habitat: lake, large size, lentic, freshwater, slow
6Km +/-0.1	<i>Chromagrion conditum</i>	Aurora Damselfly	Habitat: stream, moderate size, lotic, freshwater, fast
6Km +/-5	<i>Sterna hirundo</i>	Common Tern	Habitat: varied
6Km +/-5	<i>Eremophila alpestris</i>	Horned Lark	Habitat: varied
6Km +/-5	<i>Poecile hudsonica</i>	Boreal Chickadee	Habitat: varied
6Km +/-5	<i>Dolichonyx oryzivorus</i>	Bobolink	Habitat: varied
6Km +/-5	<i>Euphagus carolinus</i>	Rusty Blackbird	Habitat: varied
7Km +/-0.1	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Habitat: roadside sphagnum/cattail bog
7Km +/-0.1	<i>Gomphus exilis</i>	Lancet Clubtail	Habitat: lake, moderate size, lentic, freshwater, slow
7Km +/-0.1	<i>Didymops transversa</i>	Stream Cruiser	Habitat: lake, moderate size, lentic, freshwater, slow
7Km +/-0.1	<i>Epiptera princeps</i>	Prince Baskettail	Habitat: lake, moderate size, lentic, freshwater, slow
7Km +/-0.5	<i>Gomphus exilis</i>	Lancet Clubtail	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Aeshna canadensis</i>	Canada Darner	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Aeshna tuberculifera</i>	Black-Tipped Darner	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Aeshna verticalis</i>	Green-Striped Darner	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Anax junius</i>	Common Green Darner	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Cordulia shurtleffii</i>	American Emerald	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Epiptera princeps</i>	Prince Baskettail	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Celithemis martha</i>	Martha's Pennant	Habitat: pond, lentic, freshwater.



Distance from Lot 15	Species	Common Name	Habitat Summary
7Km +/-0.5	<i>Leucorrhinia frigida</i>	Frosted Whiteface	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Leucorrhinia hudsonica</i>	Hudsonian Whiteface	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Leucorrhinia intacta</i>	Dot-Tailed Whiteface	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Leucorrhinia proxima</i>	Red-Waisted Whiteface	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Plathemis lydia</i>	Common Whitetail	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Sympetrum semicinctum</i>	Band-Winged Meadowhawk	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Sympetrum vicinum</i>	Yellow-Legged Meadowhawk	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Lestes dryas</i>	Emerald Spreadwing	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Lestes unguiculatus</i>	Lyre-Tipped Spreadwing	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Coenagrion resolutum</i>	Taiga Bluet	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Enallagma ebrium</i>	Marsh Bluet	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Ischnura posita</i>	Fragile Forktail	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Nehalennia irene</i>	Sedge Sprite	Habitat: pond, lentic, freshwater.
7Km +/-0.5	<i>Chromagrion conditum</i>	Aurora Damsel	Habitat: pond, lentic, freshwater.
7Km +/-1	<i>Hagenius brevistylus</i>	Dragonhunter	Habitat: varied
8Km +/-0.1	<i>Equisetum variegatum</i>	Variiegated Horsetail	Habitat: old gold mine tailings & gypsum quarries
8Km +/-0.5	<i>Basiaeschna janata</i>	Springtime Darner	Habitat: lake, small size, lentic, freshwater, slow, clear water
8Km +/-0.5	<i>Cordulia shurtleffii</i>	American Emerald	Habitat: lake, small size, lentic, freshwater, slow, clear water
8Km +/-0.5	<i>Leucorrhinia glacialis</i>	Crimson-Ringed Whiteface	Habitat: lake, small size, lentic, freshwater, slow, clear water
8Km +/-0.5	<i>Leucorrhinia intacta</i>	Dot-Tailed Whiteface	Habitat: lake, small size, lentic, freshwater, slow, clear water
8Km +/-0.5	<i>Ladona julia</i>	Chalk-Fronted Corporal	Habitat: lake, small size, lentic, freshwater, slow, clear water
8Km +/-0.5	<i>Enallagma boreale</i>	Boreal Bluet	Habitat: lake, small size, lentic, freshwater, slow, clear water
8Km +/-0.5	<i>Chromagrion conditum</i>	Aurora Damsel	Habitat: stream, small size, lotic, freshwater, fast to slow, tea-coloured water
8Km +/-1	<i>Sterna hirundo</i>	Common Tern	Habitat: mainland coast freshwater.
8Km +/-1	<i>Eremophila alpestris</i>	Horned Lark	Habitat: varied
8Km +/-1	<i>Poecile hudsonica</i>	Boreal Chickadee	Habitat: varied
8Km +/-1	<i>Euphagus carolinus</i>	Rusty Blackbird	Habitat: varied
8Km +/-1	<i>Loxia curvirostra</i>	Red Crossbill	Habitat: varied
8Km +/-1	<i>Salix sericea</i>	Silky Willow	Habitat: wet thickets, stream edges, river margins, marshes.
8Km +/-10	<i>Glyptemys insculpta</i>	Wood Turtle	Habitat: varied
8Km +/-10	<i>Glyptemys insculpta</i>	Wood Turtle	Habitat: varied
8Km +/-10	<i>Bartonia virginica</i>	Yellow Screwstem	Habitat: Coastal Plains Flora.



Distance from Lot 15	Species	Common Name	Habitat Summary
8Km +/-5	<i>Sayornis phoebe</i>	Eastern Phoebe	Habitat: varied
8Km +/-5	<i>Asclepias incarnata ssp. pulchra</i>	Swamp Milkweed	Habitat: thickets & upper border of shingly beach; Freshwater Wetland
8Km +/-5	<i>Euthamia caroliniana</i>	Grass-Leaved Goldenrod	Habitat: upper margin of lake beach; Freshwater Wetland
8Km +/-5	<i>Lycopodiella appressa</i>	Southern Bog Clubmoss	Habitat: lakeshore; freshwater, wetland Coastal Plains Flora
9Km +/-0.1	<i>Cordulegaster maculata</i>	Twin-Spotted Spiketail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Gomphus ventricosus</i>	Skilllet Clubtail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Gomphus exilis</i>	Lancet Clubtail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Gomphus spicatus</i>	Dusky Clubtail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Gomphus adelphus</i>	Mustached Clubtail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Hagenius brevistylus</i>	Dragonhunter	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Stylogomphus albistylus</i>	Least Clubtail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Ophiogomphus carolus</i>	Riffle Snaketail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Aeshna verticalis</i>	Green-Striped Darner	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Basiaeschna janata</i>	Springtime Darner	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Boyeria vinosa</i>	Fawn Darner	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Didymops transversa</i>	Stream Cruiser	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Macromia illinoensis</i>	Illinois River Cruiser	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Helocordulia uhleri</i>	Uhler's Sundragon	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Leucorrhinia intacta</i>	Dot-Tailed Whiteface	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Leucorrhinia proxima</i>	Red-Waisted Whiteface	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Plathemis lydia</i>	Common Whitetail	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Sympetrum semicinctorum</i>	Band-Winged Meadowhawk	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Sympetrum vicinum</i>	Yellow-Legged Meadowhawk	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Calopteryx aequabilis</i>	River Jewelwing	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Lestes rectangularis</i>	Slender Spreadwing	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Argia fumipennis violacea</i>	Variable Dancer	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Argia moesta</i>	Powdered Dancer	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Enallagma exsulans</i>	Stream Bluet	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Enallagma hageni</i>	Hagen's Bluet	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-0.1	<i>Chromagrion conditum</i>	Aurora Damselfly	Habitat: river, moderate size, lotic, freshwater, fast
9Km +/-1	<i>Thuja occidentalis</i>	Northern White Cedar	Habitat: old fields; Unforested.



Distance from Lot 15	Species	Common Name	Habitat Summary
9Km +/-1	<i>Piptatherum canadense</i>	Canada Mountain-Ricegrass	Habitat: rocky barrens along truck road
9Km +/-10	<i>Cordulegaster maculata</i>	Twin-Spotted Spiketail	Habitat: varied
9Km +/-10	<i>Gomphus exilis</i>	Lancet Clubtail	Habitat: varied
9Km +/-10	<i>Aeshna canadensis</i>	Canada Darner	Habitat: varied
9Km +/-10	<i>Aeshna clepsydra</i>	Mottled Darner	Habitat: varied
9Km +/-10	<i>Didymops transversa</i>	Stream Cruiser	Habitat: varied
9Km +/-10	<i>Cordulia shurtleffii</i>	American Emerald	Habitat: varied
9Km +/-10	<i>Dorocordulia lepida</i>	Petite Emerald	Habitat: varied
9Km +/-10	<i>Epitheca spinigera</i>	Spiny Baskettail	Habitat: varied
9Km +/-10	<i>Helocordulia uhleri</i>	Uhler's Sundragon	Habitat: varied
9Km +/-10	<i>Somatochlora incurvata</i>	Incurvate Emerald	Habitat: varied
9Km +/-10	<i>Leucorrhinia hudsonica</i>	Hudsonian Whiteface	Habitat: varied
9Km +/-10	<i>Leucorrhinia intacta</i>	Dot-Tailed Whiteface	Habitat: varied
9Km +/-10	<i>Ladona exusta</i>	White Corporal	Habitat: varied
9Km +/-10	<i>Ladona julia</i>	Chalk-Fronted Corporal	Habitat: varied
9Km +/-10	<i>Sympetrum vicinum</i>	Yellow-Legged Meadowhawk	Habitat: varied
9Km +/-10	<i>Calopteryx aequabilis</i>	River Jewelwing	Habitat: varied
9Km +/-10	<i>Argia fumipennis violacea</i>	Variable Dancer	Habitat: varied
9Km +/-10	<i>Enallagma boreale</i>	Boreal Bluet	Habitat: varied
9Km +/-10	<i>Enallagma ebrium</i>	Marsh Bluet	Habitat: varied
9Km +/-10	<i>Enallagma hageni</i>	Hagen's Bluet	Habitat: varied
9Km +/-10	<i>Nehalennia irene</i>	Sedge Sprite	Habitat: varied
9Km +/-10	<i>Chromagrion conditum</i>	Aurora Damsel	Habitat: varied
9Km +/-5	<i>Caprimulgus vociferus</i>	Whip-Poor-Will	Habitat: varied
9Km +/-5	<i>Myiarchus crinitus</i>	Great Crested Flycatcher	Habitat: varied
10Km +/-0.5	<i>Hypericum dissimulatum</i>	Disguised St. John's-Wort	Habitat: gravelly beach of lake.
10Km +/-5	<i>Sterna hirundo</i>	Common Tern	Habitat: varied
10Km +/-5	<i>Poecile hudsonica</i>	Boreal Chickadee	Habitat: varied
10Km +/-5	<i>Sialia sialis</i>	Eastern Bluebird	Habitat: varied
10Km +/-5	<i>Dolichonyx oryzivorus</i>	Bobolink	Habitat: varied

Source: Extracted from original data obtained from the ACCDC obtained July 21, 2006.

