

APPENDIX A
ENVIRONMENTAL PROTECTION PLAN
SUGGESTED TABLE OF CONTENTS

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APPENDIX B
WETLAND CHARACTERISTICS

Table B1: Wetland Characteristics, Martock Ridge Community Wind Project

| WETLAND ID | WETLAND TYPE | LANDSCAPE POSITION | LANDFORM | WATER FLOW | SOIL TYPE | SURFACE/HYDROLOGIC CONDITIONS | WETLAND BOUNDARY | DOMINANT VEGETATION | | | WATERCOURSE/WATER BODY PRESENT |
|------------|--------------|--------------------|------------------|-------------------------|--|--|--------------------|--|---|--|--|
| | | | | | | | | Herbs | Shrubs | Trees | |
| 1 | Treed swamp | Terrene | Basin | Outflow (assumed) | Organic over depleted mineral (A2 - histic epipedon) | 1) Saturated at surface 2) Water stained leaves 3) Surface water - 25 cm 4) Pit and mound undulations | Moderate to steep | - New York fern (<i>Thelypteris noveboracensis</i>) cinnamon fern (<i>Osmunda cinnamomea</i>) | - red maple (<i>Acer rubrum</i>) | None | None observed |
| 2 | Treed swamp | Terrene | Basin | Outflow (assumed) | Organic (A1 - histosol) | 1) Saturated at surface 2) Water stained leaves 3) Surface water - 30 cm 4) Pit and mound undulations | Moderate to steep | - cinnamon fern New York fern bunchberry (<i>Cornus canadensis</i>) | - speckled alder (<i>Alnus incana rugosa</i>) - false holly (<i>Nemopanthus mucronata</i>) | - black spruce (<i>Picea mariana</i>) - red maple | None observed |
| 3 | Treed swamp | Terrene | Basin | Outflow (assumed) | Organic (A1 - histosol) | 1) Saturated at surface 2) Water stained leaves 3) Pit and mound undulations | Moderate to steep | - cinnamon fern | - balsam fir (<i>Abies balsamea</i>) black spruce | - black spruce red maple | None observed |
| 4 | Treed swamp | Terrene | Basin | Outflow | Organic (A1 - histosol) | 1) Saturated at surface | Gentle to moderate | - tawny cotton-grass (<i>Eriophorum virginicum</i>) bunchberry | - Canada holly (<i>Ilex verticillata</i>) speckled alder | - black spruce red maple - yellow birch (<i>Betula alleghaniensis</i>) | None observed |
| 5 | Treed swamp | Terrene | Basin | Outflow | Organic (A1 - histosol) | 1) Saturated at surface 2) Water stained leaves 3) Surface water 4) Sediment deposits | Moderate | - interrupted fern (<i>Osmunda claytoniana</i>) cinnamon fern goldthread (<i>Coptis trifolia</i>) | - black spruce red maple | - black spruce red maple | - A drainage channel drains the wetland to the southeast |
| 6 | Treed swamp | Terrene | Basin | Isolated | Organic (A1 - histosol) | 1) Saturated at surface 2) Water stained leaves | Gentle to Moderate | - balsam fir (seedlings) goldthread | - black spruce red maple | - black spruce red maple | None observed |
| 7 | Treed swamp | Terrene | Slope/Seepage | Throughflow (perennial) | Organic (A1 - histosol) | 1) Saturated at surface 2) Drainage patterns | Gentle | - swamp dewberry (<i>Rubus hispidus</i>) New York fern sensitive fern (<i>Onoclea sensibilis</i>) cinnamon fern | - balsam fir witch hazel (<i>Hamamelis virginiana</i>) yellow birch | - red maple white ash (<i>Fraxinus americana</i>) balsam fir | - Input provided at southwestern wetland boundary via a drainage channel. The wetland drains to the north away from the assessment area. |
| 8 | Treed swamp | Lotic stream | Basin | Throughflow | Organic (A1 - histosol) | 1) Saturated at surface 2) Groundwater within 20 cm 3) Drainage patterns | Gentle | - sensitive fern New York fern cinnamon fern | - white ash balsam fir red maple | - red maple white ash | - An ephemeral stream enters the northwestern wetland boundary and exits to the southeast. |
| 9 | Shrub swamp | Lotic stream | Floodplain/basin | Throughflow | Organic (A1 - histosol) | 1) Drainage patterns 2) Water stained leaves 3) Saturated at surface | Gentle | - cinnamon fern | - witch hazel white ash yellow birch | - red maple | - Wetland exists as a riparian shrub swamp adjacent to Fall Brook located to the east. |
| 10 | Shrub swamp | Lotic stream | Basin | Throughflow | Organic (A1 - histosol) | 1) Groundwater within 15 cm 2) Drainage patterns 3) Saturated at surface 4) Water stained leaves | Gentle | - cinnamon fern | - witch hazel white ash yellow birch red maple | - None | - Watercourse 3 runs through the wetland habitat from south to north. |
| 11 | Treed swamp | Terrene | Basin | Outflow | Organic (A1 - histosol) | 1) Groundwater within 20 cm 2) Drainage patterns 3) Water stained leaves | Moderate | - cinnamon fern New York fern bluejoint (<i>Calamagrostis canadensis</i>) | - balsam fir red maple Canada holly | - red maple - balsam fir yellow birch | - None observed |

APPENDIX C
PLANT LISTS

| Common Name | Scientific Name | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|----------------------------|-----------------------------------|--------------|-----------------|-----------------|--------------|
| Vascular Plants | | | | | |
| Chinese Hemlock-parsley | <i>Conioselinum chinense</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Eastern Lilaeopsis | <i>Lilaeopsis chinensis</i> | Yellow | Special Concern | Special Concern | Vulnerable |
| Blunt Sweet Cicely | <i>Osmorhiza depauperata</i> | Red | Not Listed | Not Listed | Not Listed |
| Smooth Sweet Cicely | <i>Osmorhiza longistylis</i> | Red | Not Listed | Not Listed | Not Listed |
| Clustered Sanicle | <i>Sanicula odorata</i> | Red | Not Listed | Not Listed | Not Listed |
| Golden Alexanders | <i>Zizia aurea</i> | Red | Not Listed | Not Listed | Not Listed |
| Rosy Pussytoes | <i>Antennaria rosea</i> | Red | Not Listed | Not Listed | Not Listed |
| Parlin's Pussytoes | <i>Antennaria parlinii</i> | Red | Not Listed | Not Listed | Not Listed |
| Estuary Beggarticks | <i>Bidens hyperborea</i> | Red | Not Listed | Not Listed | Not Listed |
| Hyssop-leaved Fleabane | <i>Erigeron hyssopifolius</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Philadelphia Fleabane | <i>Erigeron philadelphicus</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Coastal Plain Joe-pye-weed | <i>Eutrochium dubium</i> | Red | Not Listed | Not Listed | Not Listed |
| Robinson's Hawkweed | <i>Hieracium robinsonii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Big-leaved Marsh-elder | <i>Iva frutescens</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Hairy Lettuce | <i>Lactuca hirsuta</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Water Beggarticks | <i>Bidens beckii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Cut-Leaved Coneflower | <i>Rudbeckia laciniata</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Seabeach Ragwort | <i>Senecio pseudoarnica</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Hairy Goldenrod | <i>Solidago hispida</i> | Red | Not Listed | Not Listed | Not Listed |
| White Snakeroot | <i>Ageratina altissima</i> | Red | Not Listed | Not Listed | Not Listed |
| Boreal Aster | <i>Symphyotrichum boreale</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Wavy-leaved Aster | <i>Symphyotrichum undulatum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Fringed Blue Aster | <i>Symphyotrichum ciliolatum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Pale Jewelweed | <i>Impatiens pallida</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Blue Cohosh | <i>Caulophyllum thalictroides</i> | Red | Not Listed | Not Listed | Not Listed |
| Smooth Alder | <i>Alnus serrulata</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Bog Birch | <i>Betula pumila</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Newfoundland Dwarf Birch | <i>Betula michauxii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Wild Comfrey | <i>Cynoglossum virginianum</i> | Red | Not Listed | Not Listed | Not Listed |
| Drummond's Rockcress | <i>Arabis drummondii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Western Hairy Rockcress | <i>Arabis hirsuta</i> | Red | Not Listed | Not Listed | Not Listed |
| Small-flowered Bittercress | <i>Cardamine parviflora</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Cuckoo Flower | <i>Cardamine pratensis</i> | Red | Not Listed | Not Listed | Not Listed |
| Large Toothwort | <i>Cardamine maxima</i> | Red | Not Listed | Not Listed | Not Listed |
| Rock Whitlow-Grass | <i>Draba glabella</i> | Red | Not Listed | Not Listed | Not Listed |
| Marsh Bellflower | <i>Campanula aparinoides</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Pale-Spiked Lobelia | <i>Lobelia spicata</i> | Red | Not Listed | Not Listed | Not Listed |
| Greenland Stitchwort | <i>Minuartia groenlandica</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Sleepy Catchfly | <i>Silene antirrhina</i> | Red | Not Listed | Not Listed | Not Listed |
| Saltmarsh Starwort | <i>Stellaria humifusa</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Long-leaved Starwort | <i>Stellaria longifolia</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Prickly Hornwort | <i>Ceratophyllum echinatum</i> | Red | Not Listed | Not Listed | Not Listed |
| Roland's Sea-Blite | <i>Suaeda rolandii</i> | Red | Not Listed | Not Listed | Not Listed |
| Rockrose | <i>Helianthemum canadense</i> | Red | Not Listed | Not Listed | Endangered |
| Pinebarren Golden Heather | <i>Hudsonia ericoides</i> | Yellow | Not Listed | Not Listed | Not Listed |

| Common Name | Scientific Name | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|------------------------------|-----------------------------------|--------------|-----------------|-----------------|--------------|
| Sweet Pepperbush | <i>Clethra alnifolia</i> | Yellow | Special Concern | Special Concern | Vulnerable |
| Disguised St John's-wort | <i>Hypericum dissimulatum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Large St John's-wort | <i>Hypericum majus</i> | Red | Not Listed | Not Listed | Not Listed |
| Orange-fruited Tinker's Weed | <i>Triosteum aurantiacum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Water Pygmyweed | <i>Crassula aquatica</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Buttonbush Dodder | <i>Cuscuta cephalanthi</i> | Red | Not Listed | Not Listed | Not Listed |
| Soapberry | <i>Shepherdia canadensis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Pink Crowberry | <i>Empetrum eamesii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Northern Blueberry | <i>Vaccinium boreale</i> | Red | Not Listed | Not Listed | Not Listed |
| Dwarf Bilberry | <i>Vaccinium caespitosum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Alpine Bilberry | <i>Vaccinium uliginosum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Robbins' Milkvetch | <i>Astragalus robbinsii</i> | Red | Not Listed | Not Listed | Not Listed |
| Canada Tick-trefoil | <i>Desmodium canadense</i> | Red | Not Listed | Not Listed | Not Listed |
| Large Tick-Trefoil | <i>Desmodium glutinosum</i> | Red | Not Listed | Not Listed | Not Listed |
| Field Locoweed | <i>Oxytropis campestris</i> | Red | Not Listed | Not Listed | Not Listed |
| Farwell's Water Milfoil | <i>Myriophyllum farwellii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Whorled Water Milfoil | <i>Myriophyllum verticillatum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Comb-leaved Mermaidweed | <i>Proserpinaca pectinata</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Intermediate Mermaidweed | <i>Proserpinaca intermedia</i> | Red | Not Listed | Not Listed | Not Listed |
| American False Pennyroyal | <i>Hedeoma pulegioides</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Canada Germander | <i>Teucrium canadense</i> | Yellow | Not Listed | Not Listed | Not Listed |
| False Mermaidweed | <i>Floerkea proserpinacoides</i> | Yellow | Not at Risk | Not Listed | Not Listed |
| Inverted Bladderwort | <i>Utricularia resupinata</i> | Red | Not Listed | Not Listed | Not Listed |
| Swamp Loosestrife | <i>Decodon verticillatus</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Black Ash | <i>Fraxinus nigra</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Red Ash | <i>Fraxinus pennsylvanica</i> | Red | Not Listed | Not Listed | Not Listed |
| Purple-veined Willowherb | <i>Epilobium coloratum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Downy Willowherb | <i>Epilobium strictum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| American Cancer-root | <i>Conopholis americana</i> | Red | Not Listed | Not Listed | Not Listed |
| Blood Milkwort | <i>Polygala sanguinea</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Halberd-leaved Tearthumb | <i>Persicaria arifolia</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Climbing False Buckwheat | <i>Fallopia scandens</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Triangular-valve Dock | <i>Rumex triangulivalvis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Horn-leaved Riverweed | <i>Podostemum ceratophyllum</i> | Red | Not Listed | Not Listed | Not Listed |
| Water Blinks | <i>Montia fontana</i> | Red | Not Listed | Not Listed | Not Listed |
| Mistassini Primrose | <i>Primula mistassinica</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Seaside Brookweed | <i>Samolus valerandi</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Lesser Pyrola | <i>Pyrola minor</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Canada Anemone | <i>Anemone canadensis</i> | Red | Not Listed | Not Listed | Not Listed |
| Wood Anemone | <i>Anemone quinquefolia</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Virginia Anemone | <i>Anemone virginiana</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Purple Clematis | <i>Clematis occidentalis</i> | Red | Not Listed | Not Listed | Not Listed |
| Round-lobed Hepatica | <i>Anemone americana</i> | Red | Not Listed | Not Listed | Not Listed |
| Pennsylvania Buttercup | <i>Ranunculus pennsylvanicus</i> | Red | Not Listed | Not Listed | Not Listed |
| Cursed Buttercup | <i>Ranunculus sceleratus</i> | Red | Not Listed | Not Listed | Not Listed |
| Alder-leaved Buckthorn | <i>Rhamnus alnifolia</i> | Yellow | Not Listed | Not Listed | Not Listed |

| Common Name | Scientific Name | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|--------------------------|-----------------------------------|--------------|----------------|-------------|--------------|
| Nantucket Serviceberry | <i>Amelanchier nantucketensis</i> | Red | Not Listed | Not Listed | Not Listed |
| Common Buttonbush | <i>Cephalanthus occidentalis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Northern Bedstraw | <i>Galium boreale</i> | Red | Not Listed | Not Listed | Not Listed |
| Labrador Bedstraw | <i>Galium labradoricum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Blunt-leaved Bedstraw | <i>Galium obtusum</i> | Red | Not Listed | Not Listed | Not Listed |
| Bog Willow | <i>Salix pedicellaris</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Silky Willow | <i>Salix sericea</i> | Red | Not Listed | Not Listed | Not Listed |
| Northern Comandra | <i>Geocaulon lividum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| White Mountain Saxifrage | <i>Saxifraga paniculata</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Heart-leaved Foamflower | <i>Tiarella cordifolia</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Clammy Hedge-Hyssop | <i>Gratiola neglecta</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Southern Mudwort | <i>Limosella australis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Eastern Leatherwood | <i>Dirca palustris</i> | Red | Not Listed | Not Listed | Not Listed |
| Small-spike False-nettle | <i>Boehmeria cylindrica</i> | Red | Not Listed | Not Listed | Not Listed |
| Canada Wood Nettle | <i>Laportea canadensis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Dwarf Clearweed | <i>Pilea pumila</i> | Red | Not Listed | Not Listed | Not Listed |
| Northern Bog Violet | <i>Viola nephrophylla</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Eastern White Cedar | <i>Thuja occidentalis</i> | Red | Not Listed | Not Listed | Vulnerable |
| Lesser Brown Sedge | <i>Carex adusta</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Scabrous Black Sedge | <i>Carex atratiformis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Bebb's Sedge | <i>Carex bebbii</i> | Red | Not Listed | Not Listed | Not Listed |
| Hairlike Sedge | <i>Carex capillaris</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Chestnut Sedge | <i>Carex castanea</i> | Red | Not Listed | Not Listed | Not Listed |
| Creeping Sedge | <i>Carex chordorrhiza</i> | Red | Not Listed | Not Listed | Not Listed |
| Bearded Sedge | <i>Carex comosa</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Slender Wood Sedge | <i>Carex digitalis</i> | Red | Not Listed | Not Listed | Not Listed |
| Bristle-leaved Sedge | <i>Carex eburnea</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Garber's Sedge | <i>Carex garberi</i> | Red | Not Listed | Not Listed | Not Listed |
| Hayden's Sedge | <i>Carex haydenii</i> | Red | Not Listed | Not Listed | Not Listed |
| Pubescent Sedge | <i>Carex hirtifolia</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Houghton's Sedge | <i>Carex houghtoniana</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Porcupine Sedge | <i>Carex hystericina</i> | Red | Not Listed | Not Listed | Not Listed |
| Woolly Sedge | <i>Carex pellita</i> | Red | Not Listed | Not Listed | Not Listed |
| Loose-Flowered Sedge | <i>Carex laxiflora</i> | Red | Not Listed | Not Listed | Not Listed |
| Livid Sedge | <i>Carex livida</i> | Red | Not Listed | Not Listed | Not Listed |
| Necklace Spike Sedge | <i>Carex ormostachya</i> | Red | Not Listed | Not Listed | Not Listed |
| Peck's Sedge | <i>Carex peckii</i> | Red | Not Listed | Not Listed | Not Listed |
| Plantain-Leaved Sedge | <i>Carex plantaginea</i> | Red | Not Listed | Not Listed | Not Listed |
| Prairie Sedge | <i>Carex prairea</i> | Red | Not Listed | Not Listed | Not Listed |
| Swan's Sedge | <i>Carex swanii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Tender Sedge | <i>Carex tenera</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Tuckerman's Sedge | <i>Carex tuckermanii</i> | Red | Not Listed | Not Listed | Not Listed |
| Wiegand's Sedge | <i>Carex wiegandii</i> | Red | Not Listed | Not Listed | Not Listed |
| Yellow Spikerush | <i>Eleocharis flavescens</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Ovate Spikerush | <i>Eleocharis ovata</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Slender Cottongrass | <i>Eriophorum gracile</i> | Yellow | Not Listed | Not Listed | Not Listed |

| Common Name | Scientific Name | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|-------------------------------|------------------------------------|--------------|-----------------|-----------------|--------------|
| Tall Beakrush | <i>Rhynchospora macrostachya</i> | Red | Not Listed | Not Listed | Not Listed |
| Long's Bulrush | <i>Scirpus longii</i> | Yellow | Special Concern | Special Concern | Vulnerable |
| Torrey's Bulrush | <i>Schoenoplectus torreyi</i> | Red | Not Listed | Not Listed | Not Listed |
| Redroot | <i>Lachnanthes carolina</i> | Red | Special Concern | Threatened | Threatened |
| Wild Celery | <i>Apium graveolens</i> | Exotic | Not Listed | Not Listed | Not Listed |
| Slender Blue Flag | <i>Iris prismatica</i> | Red | Not Listed | Not Listed | Not Listed |
| Coastal Plain Blue-eyed-grass | <i>Sisyrinchium fuscatum</i> | Red | Not Listed | Not Listed | Not Listed |
| Sharp-fruited Rush | <i>Juncus acuminatus</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Greene's Rush | <i>Juncus greenei</i> | Red | Not Listed | Not Listed | Not Listed |
| Grass-leaved Rush | <i>Juncus marginatus</i> | Yellow | Not Listed | Not Listed | Not Listed |
| One-sided Rush | <i>Juncus secundus</i> | Red | Not Listed | Not Listed | Not Listed |
| Woodland Rush | <i>Juncus subcaudatus</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Vasey's Rush | <i>Juncus vaseyi</i> | Red | Not Listed | Not Listed | Not Listed |
| Dudley's Rush | <i>Juncus dudleyi</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Wild Chives | <i>Allium schoenoprasum</i> | Red | Not Listed | Not Listed | Not Listed |
| Wild Leek | <i>Allium tricoccum</i> | Red | Not Listed | Not Listed | Not Listed |
| Canada Lily | <i>Lilium canadense</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Golden Crest | <i>Lophiola aurea</i> | Red | Special Concern | Threatened | Threatened |
| Thread-Like Naiad | <i>Najas gracillima</i> | Red | Not Listed | Not Listed | Not Listed |
| Long-bracted Frog Orchid | <i>Coeloglossum viride</i> | Red | Not Listed | Not Listed | Not Listed |
| Ram's-Head Lady's-Slipper | <i>Cypripedium arietinum</i> | Red | Not Listed | Not Listed | Endangered |
| Yellow Lady's-slipper | <i>Cypripedium parviflorum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Showy Lady's-Slipper | <i>Cypripedium reginae</i> | Red | Not Listed | Not Listed | Not Listed |
| Downy Rattlesnake-Plantain | <i>Goodyera pubescens</i> | Red | Not Listed | Not Listed | Not Listed |
| Lesser Rattlesnake-plantain | <i>Goodyera repens</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Southern Twayblade | <i>Listera australis</i> | Red | Not Listed | Not Listed | Not Listed |
| White Adder's-Mouth | <i>Malaxis monophyllos</i> | Red | Not Listed | Not Listed | Not Listed |
| Tuberclad Orchid | <i>Platanthera flava</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Large Round-Leaved Orchid | <i>Platanthera macrophylla</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Case's Ladies'-Tresses | <i>Spiranthes casei</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Shining Ladies'-Tresses | <i>Spiranthes lucida</i> | Red | Not Listed | Not Listed | Not Listed |
| Yellow Ladies'-tresses | <i>Spiranthes ochroleuca</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Short-awned Foxtail | <i>Alopecurus aequalis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Broad-Glumed Brome | <i>Bromus latiglumis</i> | Red | Not Listed | Not Listed | Not Listed |
| Slim-stemmed Reed Grass | <i>Calamagrostis stricta</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Sweet Wood Reed Grass | <i>Cinna arundinacea</i> | Red | Not Listed | Not Listed | Not Listed |
| Narrow-leaved Panic Grass | <i>Dichanthelium linearifolium</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Slender Panic Grass | <i>Dichanthelium xanthophyllum</i> | Red | Not Listed | Not Listed | Not Listed |
| Wiegand's Wild Rye | <i>Elymus wiegandii</i> | Red | Not Listed | Not Listed | Not Listed |
| Spreading Wild Rye | <i>Elymus hystrix</i> | Red | Not Listed | Not Listed | Not Listed |
| Nodding Fescue | <i>Festuca subverticillata</i> | Red | Not Listed | Not Listed | Not Listed |
| Canada Rice Grass | <i>Piptatherum canadense</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Tuckerman's Panic Grass | <i>Panicum tuckermanii</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Redtop Panic Grass | <i>Panicum rigidulum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Glaucous Blue Grass | <i>Poa glauca</i> | Yellow | Not Listed | Not Listed | Not Listed |

| Common Name | Scientific Name | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|------------------------------|----------------------------------|--------------|-----------------|-----------------|--------------|
| Slender Rice Grass | <i>Piptatherum pungens</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Fries' Pondweed | <i>Potamogeton friesii</i> | Red | Not Listed | Not Listed | Not Listed |
| Blunt-leaved Pondweed | <i>Potamogeton obtusifolius</i> | Yellow | Not Listed | Not Listed | Not Listed |
| White-stemmed Pondweed | <i>Potamogeton praelongus</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Spotted Pondweed | <i>Potamogeton pulcher</i> | Red | Not Listed | Not Listed | Not Listed |
| Richardson's Pondweed | <i>Potamogeton richardsonii</i> | Red | Not Listed | Not Listed | Not Listed |
| Flat-stemmed Pondweed | <i>Potamogeton zosteriformis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Northern Maidenhair Fern | <i>Adiantum pedatum</i> | Red | Not Listed | Not Listed | Not Listed |
| Steller's Rockbrake | <i>Cryptogramma stelleri</i> | Red | Not Listed | Not Listed | Not Listed |
| Maidenhair Spleenwort | <i>Asplenium trichomanes</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Green Spleenwort | <i>Asplenium viride</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Netted Chain Fern | <i>Woodwardia areolata</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Fragrant Wood Fern | <i>Dryopteris fragrans</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Smooth Cliff Fern | <i>Woodsia glabella</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Marsh Horsetail | <i>Equisetum palustre</i> | Red | Not Listed | Not Listed | Not Listed |
| Meadow Horsetail | <i>Equisetum pratense</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Acadian Quillwort | <i>Isoetes acadiensis</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Prototype Quillwort | <i>Isoetes prototypus</i> | Yellow | Special Concern | Special Concern | Vulnerable |
| Ground-Fir | <i>Lycopodium sabinifolium</i> | Not Listed | Not Listed | Not Listed | Not Listed |
| Triangle Moonwort | <i>Botrychium lanceolatum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Common Moonwort | <i>Botrychium lunaria</i> | Red | Not Listed | Not Listed | Not Listed |
| Least Moonwort | <i>Botrychium simplex</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Northern Adder's-tongue | <i>Ophioglossum pusillum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Rock Spikemoss | <i>Selaginella rupestris</i> | Red | Not Listed | Not Listed | Not Listed |
| Low Spikemoss | <i>Selaginella selaginoides</i> | Red | Not Listed | Not Listed | Not Listed |
| Non-vascular Plants | | | | | |
| Lurking Leskea | <i>Plagiothecium latebricola</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Tufted Fen Moss | <i>Paludella squarrosa</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Wulf's Peat Moss | <i>Sphagnum wulfianum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Toothed-leaved Nitrogen Moss | <i>Tetraplodon angustatus</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Metropolitan Timmia Moss | <i>Timmia megapolitana</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Lichens | | | | | |
| Common Chocolate-chip Lichen | <i>Solorina saccata</i> | Red | Not Listed | Not Listed | Not Listed |
| Blue Felt Lichen | <i>Degelia plumbea</i> | Green | Special Concern | No Status | Not Listed |
| Ghost Antler Lichen | <i>Pseudevernia cladonia</i> | Yellow | Not at Risk | No Status | Not Listed |
| Black-foam Lichen | <i>Anzia colpodes</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Crumpled Bat's Wing Lichen | <i>Collema leptaleum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Blistered Tarpaper Lichen | <i>Collema furfuraceum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Peppered Moon Lichen | <i>Sticta fuliginosa</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Beaded Jellyskin Lichen | <i>Leptogium teretiusculum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Appressed Jellyskin Lichen | <i>Leptogium subtile</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Vole Ears Lichen | <i>Erioderma mollissimum</i> | Red | Endangered | No Status | Not Listed |
| Powder-tipped Antler Lichen | <i>Everniastrum catawbiense</i> | Red | Not Listed | Not Listed | Not Listed |
| Rimmed Shingles Lichen | <i>Fuscopannaria leucosticta</i> | Red | Not Listed | Not Listed | Not Listed |
| Scaly Fringe Lichen | <i>Heterodermia squamulosa</i> | Yellow | Not Listed | Not Listed | Not Listed |

| Common Name | Scientific Name | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|------------------------------------|-------------------------------|--------------|----------------|-------------|--------------|
| Blistered Jellyskin Lichen | <i>Leptogium corticola</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Tattered Jellyskin Lichen | <i>Leptogium lichenoides</i> | Red | Not Listed | Not Listed | Not Listed |
| Stretched Jellyskin Lichen | <i>Leptogium milligranum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Naked Kidney Lichen | <i>Nephroma bellum</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Pimpled Kidney Lichen | <i>Nephroma resupinatum</i> | Red | Not Listed | Not Listed | Not Listed |
| Eyed Mossthorns Woollybear Lichen | <i>Polychidium muscicola</i> | Red | Not Listed | Not Listed | Not Listed |
| Powdered Moon Lichen | <i>Sticta limbata</i> | Red | Not Listed | Not Listed | Not Listed |
| Tree Pelt Lichen | <i>Peltigera collina</i> | Yellow | Not Listed | Not Listed | Not Listed |
| Scaly Pelt Lichen | <i>Peltigera lepidophora</i> | Red | Not Listed | Not Listed | Not Listed |
| Poor-man's Shingles Lichen | <i>Parmeliella parvula</i> | Red | Not Listed | Not Listed | Not Listed |
| Boreal Felt Lichen - Atlantic pop. | <i>Erioderma pedicellatum</i> | Red | Endangered | Endangered | Endangered |

APPENDIX D
BIRD SURVEY RESULTS

Table D1: Detailed Winter Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) |
|---------------|----------|-------------------------|------------|------------|----------------|-------|---------------|---------|------------------------|-----------------|----------------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | |
| March 20/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | 10 km/h SE | 3 | Clear | None | Unknown | American Robin | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Boreal Chickadee | 4 | 0-50 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 8 | 0-50 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | 10 km/h SE | 3 | Clear | None | Unknown | American Crow | 2 | 100+ |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 0-50 |
| - | 3MP3 | 0412161E, 4976275N | Unknown | 10 km/h SE | 3 | Clear | None | Unknown | American Crow | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Common Grackle | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 3 | 50-100 |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 100+ |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | 10 km/h SE | 3 | Clear | None | Unknown | American Crow | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 5 | 50-100 |
| - | - | - | - | - | - | - | - | - | Evening Grosbeak | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 4 | 50-100 |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 |
| - | 3MP5 | 0415503E, 4975739N | Mixedwoods | 10 km/h SE | 3 | Clear | None | 9:29 AM | American Crow | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 4 | 0-50 |
| - | - | - | - | - | - | - | - | - | Common Raven | 4 | 100+ |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 8 | 50-100 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 100+ |

Table D1: Detailed Winter Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) |
|------|----------|-------------------------|------------|------------|----------------|-------|---------------|----------|------------------------|-----------------|----------------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | 10 km/h SE | 3 | Clear | None | 10:06 AM | Black-capped Chickadee | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 4 | 50-100 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 4 | 50-100 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 4 | 50-100 |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 100+ |
| - | - | - | - | - | - | - | - | - | Red-winged Blackbird | 1 | FO |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 8 | 50-100 |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | 10 km/h SE | 6 | Clear | None | 10:26 AM | American Crow | 4 | 100+ |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | 10 km/h SE | 6 | Clear | None | 10:45 AM | American Crow | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | American Crow | 2 | 100+ |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 4 | 0-50 |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Common Raven | 4 | 100+ |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 100+ |

Table D1: Detailed Winter Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) |
|------|----------|-------------------------|------------|---------------|----------------|-------|---------------|----------|------------------------|-----------------|----------------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | 10 km/h SE | 6 | Clear | None | 11:03 AM | American Crow | 2 | 100+ |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 4 | 0-50 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 4 | 50-100 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Red-winged Blackbird | 1 | FO |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | 10 km/h SE | 6 | Clear | None | 11:21 AM | Brown Creeper | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 8 | 0-50 |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | 10 km/h SE | 6 | Clear | None | 11:31 AM | American Black Duck | 1 | FO |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 0-50 |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 2 | 50-100 |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 1 | 50-100 |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 2 | 0-50 |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 4 | 0-50 |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 |

Table D2: Winter Bird Survey Results Summary, Martock Ridge Community Wind Project

Project # 12-4402

| Common Name | Scientific Name | Number of Observations | Individuals Observed | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|------------------------|-----------------------------------|-------------------------------|-----------------------------|---------------------|-----------------------|--------------------|---------------------|
| American Black Duck | <i>Anas rubripes</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| American Crow | <i>Corvus brachyrhynchos</i> | 8 | 15 | Green | Not Listed | Not Listed | Not Listed |
| American Robin | <i>Turdus migratorius</i> | 3 | 4 | Green | Not Listed | Not Listed | Not Listed |
| Black-capped Chickadee | <i>Poecile atricapillus</i> | 7 | 18 | Green | Not Listed | Not Listed | Not Listed |
| Blue Jay | <i>Cyanocitta cristata</i> | 6 | 6 | Green | Not Listed | Not Listed | Not Listed |
| Boreal Chickadee | <i>Poecile hudsonicus</i> | 1 | 4 | Yellow | Not Listed | Not Listed | Not Listed |
| Brown Creeper | <i>Certhia americana</i> | 4 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Common Grackle | <i>Quiscalus quiscula</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Common Raven | <i>Corvus corax</i> | 7 | 15 | Green | Not Listed | Not Listed | Not Listed |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 12 | 25 | Green | Not Listed | Not Listed | Not Listed |
| Downy Woodpecker | <i>Picoides pubescens</i> | 6 | 8 | Green | Not Listed | Not Listed | Not Listed |
| Evening Grosbeak | <i>Coccothraustes vespertinus</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Golden-crowned Kinglet | <i>Regulus satrapa</i> | 6 | 13 | Yellow | Not Listed | Not Listed | Not Listed |
| Hairy Woodpecker | <i>Picoides villosus</i> | 4 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Mourning Dove | <i>Zenaida macroura</i> | 2 | 3 | Green | Not Listed | Not Listed | Not Listed |
| Northern Flicker | <i>Colaptes auratus</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Pine Siskin | <i>Spinus pinus</i> | 11 | 46 | Yellow | Not Listed | Not Listed | Not Listed |
| Purple Finch | <i>Carpodacus purpureus</i> | 11 | 18 | Green | Not Listed | Not Listed | Not Listed |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 6 | 8 | Green | Not Listed | Not Listed | Not Listed |
| Red-winged Blackbird | <i>Agelaius phoeniceus</i> | 2 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| White-winged Crossbill | <i>Loxia leucoptera</i> | 1 | 8 | Green | Not Listed | Not Listed | Not Listed |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|---------------|----------|-------------------------|------------|---------------|----------------|------------------|---------------|---------|--------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| April 19/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | 15 km/h NE | 2 | Partly Cloudy | None | 8:16 AM | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Broad-winged Hawk | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 50-100 | - |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | 15 km/h NE | 2 | Partly Cloudy | None | 8:32 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | 3MP3 | 0412161E, 4976275N | Unknown | 15 km/h NE | 2 | Partly Cloudy | None | 8:50 AM | American Robin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 6 | 0-50 | 3P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 0-50 | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|---------------|---------------|---------|--------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | 15 km/h NE | 3 | Partly Cloudy | None | 9:05 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Broad-winged Hawk | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | 15 km/h NE | 3 | Sunny | None | 9:24 AM | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 50-100 | 1P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 | 1P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | 15 km/h NE | 4 | Sunny | None | 9:40 AM | American Goldfinch | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 50-100 | 1P |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 50-100 | - |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | 15 km/h NE | 5 | Sunny | None | 9:58 AM | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------------|----------|-------------------------|------------|------------|----------------|----------------------|---------------|----------|--------------------------|-----------------|----------------------------|--------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | 15 km/h NE | 5 | Sunny | None | 10:18 AM | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 0-50 | - |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | 15 km/h NE | 6 | Sunny | None | 10:34 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 4 | 0-50 | 2P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 100+ | - |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | 15 km/h NE | 7 | Sunny, partly cloudy | None | 10:52 AM | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 4 | 0-50 | 2P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 100+ | - |
| May 1/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | Calm | 3 | Mainly clear | None | 8:10 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | White-breasted Nuthatch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 6 | 0-50 | Family |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|--------------|---------------|------------|--------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 3 | 100+ | - |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | Calm | 3 | Mainly clear | None | 8:27:00 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Broad-winged Hawk | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Scarlet Tanager | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 100+ | - |
| - | 3MP3 | 0412161E, 4976275N | Mixedwoods | Calm | 4 | Mainly clear | None | 8:42:00 AM | Black-capped Chickadee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Evening Grosbeak | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 5 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | FO E | - |
| - | - | - | - | - | - | - | - | - | Ruby-crowned Kinglet | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 4 | 100+ | - |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | Calm | 4 | Mainly clear | None | 8:57 AM | American Robin | 5 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ruby-crowned Kinglet | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 4 | 100+ | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|--------------|---------------|---------|--------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | Calm | 4 | Mainly clear | None | 9:12 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Goldfinch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | FO NW | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 100+ | - |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | Calm | 5 | Mainly clear | None | 9:28 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Broad-winged Hawk | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 4 | 100+ | - |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | Calm | 5 | Mainly clear | None | 9:45 AM | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 100+ | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|-------|---------------|----------|--------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | Calm | 6 | Clear | None | 9:59 AM | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 3 | 100+ | - |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | Calm | 6 | Clear | None | 10:14 AM | American Black Duck | 2 | FO N | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 100+ | - |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | Calm | 7 | Clear | None | 10:29 AM | Black-backed Woodpecker | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 50-100 | 1P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ruby-crowned Kinglet | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 100+ | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|-------------|----------|-------------------------|------------|------------|----------------|----------|---------------|----------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP12 | 0411268E, 4974617N | Mixedwoods | Calm | 9 | Clear | None | 10:46 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 100+ | - |
| May 31/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | Calm | 12 | Overcast | None | 8:51 AM | American Robin | 5 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 6 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|----------|---------------|------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | Calm | 12 | Overcast | None | 9:13 | American Robin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 100+ | - |
| - | 3MP3 | 0412161E, 4976275N | Mixedwoods | Calm | 12 | Overcast | None | 9:30 | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 0-50 | - |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | Calm | 12 | Overcast | None | 9:49 | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 100+ | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|----------|---------------|-------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Northern Parula | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Northern Parula | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | Calm | 12 | Overcast | None | 10:13 | Black-and-white Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 100+ | - |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | Calm | 12 | Overcast | None | 10:34 | Blackburnian Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 0-50 | - |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | Calm | 12 | Overcast | None | 10:55 | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 50-100 | 1P |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 100+ | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|----------|---------------|-------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | Calm | 12 | Overcast | None | 11:20 | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 3 | 100+ | - |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | Calm | 12 | Overcast | None | 11:37 | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 50-100 | - |

Table D3: Detailed Spring Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|----------------------------|------------|------------|----------------|----------|---------------|-------|------------------------------|--------------------|-------------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 100+ | - |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | Calm | 12 | Overcast | None | 11:53 | Black-and-white Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |

Table D4: Spring Bird Survey Results Summary, Martock Ridge Community Wind Project

Project # 12-4402

| Common Name | Scientific Name | Number of Observations | Individuals Observed | NSDNR Status | COSEWIC Status | SARA Status | NSESA Status |
|------------------------------|-----------------------------------|------------------------|----------------------|--------------|----------------|-------------|--------------|
| American Black Duck | <i>Anas rubripes</i> | 1 | 2 | Green | Not Listed | Not Listed | Not Listed |
| American Crow | <i>Corvus brachyrhynchos</i> | 16 | 23 | Green | Not Listed | Not Listed | Not Listed |
| American Goldfinch | <i>Spinus tristis</i> | 2 | 3 | Green | Not Listed | Not Listed | Not Listed |
| American Robin | <i>Turdus migratorius</i> | 36 | 80 | Green | Not Listed | Not Listed | Not Listed |
| Black-and-white Warbler | <i>Mniotilta varia</i> | 11 | 12 | Green | Not Listed | Not Listed | Not Listed |
| Black-backed Woodpecker | <i>Picoides arcticus</i> | 1 | 2 | Yellow | Not Listed | Not Listed | Not Listed |
| Blackburnian Warbler | <i>Dendroica fusca</i> | 9 | 9 | Green | Not Listed | Not Listed | Not Listed |
| Black-capped Chickadee | <i>Poecile atricapillus</i> | 26 | 51 | Green | Not Listed | Not Listed | Not Listed |
| Black-throated Blue Warbler | <i>Dendroica caerulescens</i> | 19 | 34 | Green | Not Listed | Not Listed | Not Listed |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 12 | 17 | Green | Not Listed | Not Listed | Not Listed |
| Blue Jay | <i>Cyanocitta cristata</i> | 25 | 36 | Green | Not Listed | Not Listed | Not Listed |
| Blue-headed Vireo | <i>Vireo solitarius</i> | 7 | 9 | Green | Not Listed | Not Listed | Not Listed |
| Broad-winged Hawk | <i>Buteo platypterus</i> | 4 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Brown Creeper | <i>Certhia americana</i> | 5 | 6 | Green | Not Listed | Not Listed | Not Listed |
| Common Raven | <i>Corvus corax</i> | 13 | 15 | Green | Not Listed | Not Listed | Not Listed |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 40 | 67 | Green | Not Listed | Not Listed | Not Listed |
| Downy Woodpecker | <i>Picoides pubescens</i> | 3 | 3 | Green | Not Listed | Not Listed | Not Listed |
| Eastern Wood-pewee | <i>Contopus virens</i> | 2 | 2 | Yellow | Not Listed | Not Listed | Not Listed |
| Evening Grosbeak | <i>Coccothraustes vespertinus</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Golden-crowned Kinglet | <i>Regulus satrapa</i> | 7 | 13 | Yellow | Not Listed | Not Listed | Not Listed |
| Hairy Woodpecker | <i>Picoides villosus</i> | 7 | 9 | Green | Not Listed | Not Listed | Not Listed |
| Hermit Thrush | <i>Catharus guttatus</i> | 19 | 46 | Green | Not Listed | Not Listed | Not Listed |
| Least Flycatcher | <i>Empidonax minimus</i> | 10 | 23 | Green | Not Listed | Not Listed | Not Listed |
| Magnolia Warbler | <i>Dendroica magnolia</i> | 5 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Mourning Dove | <i>Zenaida macroura</i> | 8 | 8 | Green | Not Listed | Not Listed | Not Listed |
| Northern Flicker | <i>Colaptes auratus</i> | 7 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Northern Parula | <i>Parula americana</i> | 2 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Ovenbird | <i>Seiurus aurocapilla</i> | 17 | 24 | Green | Not Listed | Not Listed | Not Listed |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | 11 | 11 | Green | Not Listed | Not Listed | Not Listed |
| Pine Siskin | <i>Spinus pinus</i> | 11 | 13 | Yellow | Not Listed | Not Listed | Not Listed |
| Purple Finch | <i>Carpodacus purpureus</i> | 23 | 31 | Green | Not Listed | Not Listed | Not Listed |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 16 | 21 | Green | Not Listed | Not Listed | Not Listed |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 15 | 27 | Green | Not Listed | Not Listed | Not Listed |
| Ruby-crowned Kinglet | <i>Regulus calendula</i> | 3 | 3 | Yellow | Not Listed | Not Listed | Not Listed |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 6 | 6 | Green | Not Listed | Not Listed | Not Listed |
| Scarlet Tanager | <i>Piranga olivacea</i> | 1 | 1 | Undetermined | Not Listed | Not Listed | Not Listed |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 9 | 16 | Green | Not Listed | Not Listed | Not Listed |
| White-breasted Nuthatch | <i>Sitta carolinensis</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| White-winged Crossbill | <i>Loxia leucoptera</i> | 2 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Winter Wren | <i>Troglodytes troglodytes</i> | 9 | 9 | Green | Not Listed | Not Listed | Not Listed |
| Yellow-bellied Sapsucker | <i>Sphyrapicus varius</i> | 11 | 13 | Green | Not Listed | Not Listed | Not Listed |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 38 | 71 | Green | Not Listed | Not Listed | Not Listed |

Table D5: Detailed Breeding Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|--------------|----------|-------------------------|------------|-------------|----------------|----------|---------------|---------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| June 16/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | 10 km/hr NE | 12 | Overcast | None | 4:42 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Barred Owl | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Nighthawk | 1 | FO | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Parula | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | 10 km/hr NE | 12 | Overcast | None | 5:04 AM | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 5 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Barred Owl | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Least Flycatcher | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Northern Parula | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 100+ | - |

Table D5: Detailed Breeding Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|------------|----------------|----------|---------------|---------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP3 | 0412161E, 4976275N | Unknown | Calm | 12 | Overcast | None | 5:21 AM | American Robin | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 6 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | F/o W | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Waterthrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 0-50 | - |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | Calm | 12 | Overcast | None | 5:38 AM | American Goldfinch | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 6 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 2 | 50-100 | - |

Table D5: Detailed Breeding Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|-------------|----------------|----------|---------------|---------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | 10 km/hr NE | 12 | Overcast | None | 5:57 AM | American Goldfinch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Parula | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | 10 km/hr NE | 12 | Overcast | None | 6:15 AM | American Robin | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 3 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 50-100 | - |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | 10 km/hr NE | 12 | Overcast | None | 6:32 AM | American Robin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ruby-throated Hummingbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Winter Wren | 1 | 100+ | - |

Table D5: Detailed Breeding Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|-------------|----------------|----------|---------------|---------|------------------------------|-----------------|----------------------------|--------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | 10 km/hr NE | 13 | Overcast | None | 6:50 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Goldfinch | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 8 | 0-50 | Family |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | 10 km/hr NE | 13 | Clearing | None | 7:06 AM | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Cedar Waxwing | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 0-50 | 1P |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | 10 km/hr NE | 13 | Sunny | None | 7:23 AM | American Robin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Purple Finch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 100+ | - |

Table D5: Detailed Breeding Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|--------------|----------|-------------------------|--|------------|----------------|----------|---------------|---------|------------------------------|-----------------|----------------------------|-------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP12 | 0411268E, 4974617N | Mid-old aged coniferous dominated and mixed. | Calm | 13 | Sunny | None | 7:41 AM | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Flycatcher | 1 | 50-100 | - |
| July 16/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | 20 km/h S | 14 | Overcast | None | 5:27 AM | American Robin | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 6 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 5-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ruby-crowned Kinglet | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Flycatcher | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 1 | 50-100 | - |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | 20 km/h S | 14 | Overcast | None | 5:44 AM | American Goldfinch | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Grackle | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Nighthawk | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Parula | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 100+ | - |

Table D5: Detailed Breeding Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|------------|-----------------------------------|----------------|----------|---------------|---------|------------------------------|-----------------|----------------------------|--------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP3 | 0412161E, 4976275N | Unknown | 20km/h S | 14 | Overcast | None | 5:59 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | American Robin | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Cedar Waxwing | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 100+ | - |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | 20 km/h gusting to 30km/h S | 14 | Overcast | None | 6:16 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Eastern Wood-pewee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 0-50 | - |
| - | 3MP5 | 0415503E, 4975739N | Mixedwoods | 20 km/h gusting to 30km/h S | 14 | overcast | none | 6:32 AM | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 2 | 0-50 | 1P |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 50-100 | - |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | 20 km/h gusting to 30km/h S | 14 | Overcast | None | 7:08 AM | Dark-eyed Junco | 6 | 0-50 | Family |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Northern Parula | 1 | 0-50 | - |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | 20 km/h gusting to 30km/h S | 15 | Overcast | None | 7:28 AM | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 0-50 | - |

Table D5: Detailed Breeding Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Pairs |
|------|----------|-------------------------|---|-----------------------------------|----------------|----------|---------------|---------|------------------------------|-----------------|----------------------------|---------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | 20 km/h gusting to 30km/h S | 15 | Overcast | None | 7:47 AM | Black-capped Chickadee | 8 | 50-100 | Family |
| - | - | - | - | - | - | - | - | - | Black-throated Blue Warbler | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 50-100 | Adult w/young |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 100+ | - |
| - | 3MP12 | 0411268E, 4974617N | Mid-old aged coniferous dominated and mixed. | 20 km/h gusting to 30km/h S | 15 | Overcast | None | 8:12 AM | American Robin | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ovenbird | 1 | 0-50 | - |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | 20 km/h gusting to 30km/h S | 15 | Overcast | None | 8:33 AM | Golden-crowned Kinglet | 4 | 0-50 | Family |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-eyed Vireo | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 1 | 100+ | - |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | 20 km/h gusting to 30km/h S | 15 | Overcast | Drizzle | 8:52 AM | American Crow | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-and-white Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blackburnian Warbler | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-throated Green Warbler | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue-headed Vireo | 1 | 0-50 | - |

Table D6: Breeding Bird Survey Results Summary, Martock Ridge Community Wind Project

Project # 12-4402

| Common Name | Scientific Name | Number of Times Observed | Individuals Observed | NSDNR Status | COSEWIC Status | SARA Status | NSEA Status |
|------------------------------|--------------------------------|--------------------------|----------------------|--------------|----------------|-------------|-------------|
| American Crow | <i>Corvus brachyrhynchos</i> | 5 | 6 | Green | Not Listed | Not Listed | Not Listed |
| American Goldfinch | <i>Spinus tristis</i> | 4 | 6 | Green | Not Listed | Not Listed | Not Listed |
| American Robin | <i>Turdus migratorius</i> | 42 | 105 | Green | Not Listed | Not Listed | Not Listed |
| Barred Owl | <i>Strix varia</i> | 2 | 3 | Green | Not Listed | Not Listed | Not Listed |
| Black-and-white Warbler | <i>Mniotilta varia</i> | 7 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Blackburnian Warbler | <i>Dendroica fusca</i> | 5 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Black-capped Chickadee | <i>Poecile atricapillus</i> | 6 | 23 | Green | Not Listed | Not Listed | Not Listed |
| Black-throated Blue Warbler | <i>Dendroica caerulescens</i> | 13 | 13 | Green | Not Listed | Not Listed | Not Listed |
| Black-throated Green Warbler | <i>Dendroica virens</i> | 16 | 19 | Green | Not Listed | Not Listed | Not Listed |
| Blue Jay | <i>Cyanocitta cristata</i> | 7 | 8 | Green | Not Listed | Not Listed | Not Listed |
| Blue-headed Vireo | <i>Vireo solitarius</i> | 7 | 8 | Green | Not Listed | Not Listed | Not Listed |
| Brown Creeper | <i>Certhia americana</i> | 2 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Cedar Waxwing | <i>Bombycilla cedrorum</i> | 2 | 3 | Green | Not Listed | Not Listed | Not Listed |
| Common Grackle | <i>Quiscalus quiscula</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Common Nighthawk | <i>Chordeiles minor</i> | 2 | 2 | Red | Threatened | Threatened | Threatened |
| Common Raven | <i>Corvus corax</i> | 6 | 6 | Green | Not Listed | Not Listed | Not Listed |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 7 | 15 | Green | Not Listed | Not Listed | Not Listed |
| Eastern Wood-pewee | <i>Contopus virens</i> | 10 | 13 | Yellow | Not Listed | Not Listed | Not Listed |
| Golden-crowned Kinglet | <i>Regulus satrapa</i> | 1 | 4 | Yellow | Not Listed | Not Listed | Not Listed |
| Hairy Woodpecker | <i>Picoides villosus</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Hermit Thrush | <i>Catharus guttatus</i> | 18 | 40 | Green | Not Listed | Not Listed | Not Listed |
| Least Flycatcher | <i>Empidonax minimus</i> | 4 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Magnolia Warbler | <i>Dendroica magnolia</i> | 22 | 23 | Green | Not Listed | Not Listed | Not Listed |
| Mourning Dove | <i>Zenaida macroura</i> | 2 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Northern Parula | <i>Parula americana</i> | 5 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Northern Waterthrush | <i>Seiurus noveboracensis</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Ovenbird | <i>Seiurus aurocapilla</i> | 28 | 33 | Green | Not Listed | Not Listed | Not Listed |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Pine Siskin | <i>Spinus pinus</i> | 2 | 3 | Yellow | Not Listed | Not Listed | Not Listed |
| Purple Finch | <i>Carpodacus purpureus</i> | 2 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 3 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Red-eyed Vireo | <i>Vireo olivaceus</i> | 22 | 38 | Green | Not Listed | Not Listed | Not Listed |
| Ruby-crowned Kinglet | <i>Regulus calendula</i> | 1 | 1 | Yellow | Not Listed | Not Listed | Not Listed |
| Ruby-throated Hummingbird | <i>Archilochus colubris</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 19 | 34 | Green | Not Listed | Not Listed | Not Listed |
| Winter Wren | <i>Troglodytes troglodytes</i> | 3 | 3 | Green | Not Listed | Not Listed | Not Listed |
| Yellow-bellied Flycatcher | <i>Empidonax flaviventris</i> | 2 | 2 | Yellow | Not Listed | Not Listed | Not Listed |
| Yellow-bellied Sapsucker | <i>Sphyrapicus varius</i> | 6 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |



Probable Breeder
Confirmed Breeder

Table D7: Detailed Fall Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Flyover Height (m) |
|----------------|----------|-------------------------|------------|-------------------------------|----------------|----------|---------------|---------|--------------------------|-----------------|----------------------------|--------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| October 2/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | 20 km/h W gusts of 40 km/h | 12 | Overcast | None | 7:07 AM | American Crow | 6 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 5 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Robin | 5 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Woodcock | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Bald Eagle | 1 | FO SE to SW | >100 |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | FO S to N | 100 |
| - | - | - | - | - | - | - | - | - | Canada Goose | 8 | FO S to N | > 100 |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | FO S to N | >100 |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 6 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Evening Grosbeak | 2 | FO NE to SW | 100 |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Magnolia Warbler | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | White-throated Sparrow | 8 | 0-50 | - |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | 20 km/h W gusts of 40 km/h | 12 | Overcast | None | 7:24 AM | American Crow | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | White-throated Sparrow | 6 | 50-100 | - |
| - | 3MP3 | 0412161E, 4976275N | Mixedwoods | 20 km/h W gusts of 40 km/h | 12 | Overcast | None | 7:42 AM | American Crow | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 6 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 14 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Swainson's Thrush | 2 | 0-50 | - |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | 20 km/h W gusts of 40 km/h | 12 | Overcast | None | 8:03 AM | American Crow | 8 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 12 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Mourning Dove | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Northern Flicker | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Ruby-crowned Kinglet | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-bellied Sapsucker | 1 | 0-50 | - |

Table D7: Detailed Fall Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Flyover Height (m) |
|------|----------|-------------------------|------------|-------------------------------|----------------|----------|---------------|----------|------------------------|-----------------|----------------------------|--------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP5 | 04115503E, 4975739N | Mixedwoods | 20 km/h W gusts of 40 km/h | 12 | Overcast | none | 8:21 AM | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 3 | 0-50 | - |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | 20 km/h W gusts of 40 km/h | 12 | Sunny | None | 8:44 AM | American Crow | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Crow | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 0-50 | - |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | 20 km/h W gusts of 40 km/h | 16 | Sunny | None | 9:04 AM | Black-capped Chickadee | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Dark-eyed Junco | 6 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 4 | 0-50 | - |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | 20 km/h W gusts of 40 km/h | 16 | Sunny | None | 9:21 AM | American Crow | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 7 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Canada Goose | 30 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 6 | 0-50 | - |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | 20 km/h W gusts of 40 km/h | 16 | Sunny | None | 9:37 AM | American Crow | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | American Crow | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 2 | 100+ | - |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | 20 km/h W gusts of 40 km/h | 16 | Sunny | None | 9:51 AM | Blue Jay | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hermit Thrush | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 1 | 0-50 | - |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | 20 km/h W gusts of 40 km/h | 16 | Sunny | None | 10:06 AM | American Crow | 6 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 9 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Philadelphia Vireo | 1 | 0-50 | - |

Table D7: Detailed Fall Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Flyover Height (m) |
|-----------------|----------|-------------------------|--|----------------------------|----------------|--------------|---------------|----------|-------------------------|-----------------|----------------------------|--------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP12 | 0411268E, 4974617N | Mid-old aged coniferous dominated and mixed. | 20 km/h W gusts of 40 km/h | 18 | Sunny | None | 10:27 AM | American Robin | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 4 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Cedar Waxwing | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Yellow-rumped Warbler | 2 | 0-50 | - |
| October 26/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | Calm | 3 | Mainly sunny | None | 7:52 AM | American Goldfinch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 100+ | - |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | Calm | 3 | Mainly sunny | None | 8:11 AM | American Goldfinch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | - |
| - | 3MP3 | 0412161E, 4976275N | Mixedwoods | 10 km/h N | 3 | Mainly sunny | None | 8:28 AM | American Robin | 1 | FO S to N | <50 |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | 15 km/h N | 3 | Mainly sunny | None | 8:45 AM | Black-capped Chickadee | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 2 | 0-50 | - |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | 15 km/h N | 3 | Mainly sunny | None | 9:05 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | White-breasted Nuthatch | 1 | 0-50 | - |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | 15 km/h N | 5 | Mainly sunny | None | 9:27 AM | Black-capped Chickadee | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Canada Goose | 5 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Evening Grosbeak | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pine Siskin | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | 15 km/h N | 5 | Mainly sunny | None | 10:07 AM | Black-capped Chickadee | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 3 | FO S to N | <100 |

Table D7: Detailed Fall Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Flyover Height (m) |
|-----------------|----------|-------------------------|--|------------|----------------|--------------|---------------|----------|------------------------|-----------------|----------------------------|--------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | 15 km/h N | 8 | Mainly sunny | None | 10:27 AM | Black-capped Chickadee | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 4 | 100+ | - |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | 20 km/h N | 8 | Clear | None | 10:44 AM | Downy Woodpecker | 1 | 100+ | - |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | 20 km/h N | 8 | Clear | None | 11:01 AM | Black-capped Chickadee | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red-tailed Hawk | 1 | 0-50 | - |
| - | 3MP12 | 0411268E, 4974617N | Mid-old aged coniferous dominated and mixed. | 20 km/h N | 10 | Clear | None | 11:20 AM | Blue Jay | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 1 | 50-100 | - |
| November 6/2012 | 3MP1 | 0412501E, 4976533N | Mixedwoods | Calm | -1 | Cloudy | None | 7:04 AM | American Crow | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | American Goldfinch | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | American Robin | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 3 | 100+ | - |
| - | 3MP2 | 0412345E, 4976370N | Mixedwoods | Calm | -1 | Cloudy | None | 7:26 AM | Black-capped Chickadee | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 50-100 | - |
| - | 3MP3 | 0412161E, 4976275N | Mixedwoods | Calm | 0 | Cloudy | None | 7:45 AM | Black-capped Chickadee | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 4 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 2 | F/O E | <50 |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 2 | F/O NE | 100 |
| - | 3MP4 | 0412102E, 4975988N | Mixedwoods | Calm | 0 | Cloudy | None | 8:05 AM | Black-capped Chickadee | 4 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pileated Woodpecker | 2 | F/O N | >100 |

Table D7: Detailed Fall Bird Survey Results, Martock Ridge Community Wind Project

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Flyover Height (m) |
|------|----------|-------------------------|------------|------------|----------------|--------|---------------|---------|------------------------|-----------------|----------------------------|--------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP6 | 0411883E, 4975794N | Mixedwoods | Calm | 1 | Cloudy | None | 8:23 AM | Black-capped Chickadee | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | F/O SE | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Common Raven | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Gray Jay | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Red Crossbill | 3 | F/O S | >50 |
| - | 3MP7 | 0411776E, 4975499N | Mixedwoods | Calm | 1 | Cloudy | None | 8:41AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 3 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 1 | F/O N | 100 |
| - | 3MP8 | 0411591E, 4975301N | Mixedwoods | Calm | 1 | Cloudy | None | 8:59 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 5 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 1 | F/O W | >100 |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Red-breasted Nuthatch | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Ruffed Grouse | 1 | 50-100 | - |
| - | 3MP9 | 0411345E, 4975371N | Mixedwoods | Calm | 2 | Cloudy | None | 9:16 AM | American Crow | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Black-capped Chickadee | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Canada Goose | 10 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 2 | F/O E | 100 |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 1 | F/O W | <100 |
| - | - | - | - | - | - | - | - | - | White-winged Crossbill | 1 | F/O S | <100 |
| - | 3MP10 | 0411320E, 4975153N | Mixedwoods | Calm | 2 | Cloudy | None | 9:38AM | Black-capped Chickadee | 3 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Blue Jay | 3 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 2 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 1 | 100+ | - |
| - | 3MP11 | 0411385E, 4974883N | Mixedwoods | Calm | 2 | Cloudy | None | 9:53 AM | Black-capped Chickadee | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Brown Creeper | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Downy Woodpecker | 1 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Hairy Woodpecker | 1 | 0-50 | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 2 | 100+ | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 1 | 50-100 | - |

Table D7: Detailed Fall Bird Survey Results, Martock Ridge Community Wind Project

Project # 12-4402

| Date | Location | Coordinates (UTM NAD83) | Habitat | Conditions | | | | Time | Common Name | Number Observed | Distance from Observer (m) | Flyover Height (m) |
|------|----------|----------------------------|---|------------|----------------|--------|---------------|---------|------------------------|--------------------|-------------------------------|--------------------|
| | | | | Wind | Temperature °C | Sky | Precipitation | | | | | |
| - | 3MP12 | 0411268E, 4974617N | Mid-old aged coniferous dominated and mixed. | 12 km/h NE | 2 | Cloudy | None | 10:15AM | Evening Grosbeak | 2 | F/O SE | <100 |
| - | - | - | - | - | - | - | - | - | Golden-crowned Kinglet | 1 | 50-100 | - |
| - | - | - | - | - | - | - | - | - | Pine Grosbeak | 1 | 100+ | - |

Table D8: Fall Bird Survey Results Summary, Martock Ridge Community Wind Project

Project # 12-4402

| Common Name | Scientific Name | Number of Observations | Total Individuals Observed | NSDNR Status | COSEWIC Status | SARA Status | NSEA Status |
|--------------------------|-----------------------------------|------------------------|----------------------------|--------------|----------------|-------------|-------------|
| American Crow | <i>Corvus brachyrhynchos</i> | 15 | 51 | Green | Not Listed | Not Listed | Not Listed |
| American Goldfinch | <i>Spinus tristis</i> | 3 | 4 | Green | Not Listed | Not Listed | Not Listed |
| American Robin | <i>Turdus migratorius</i> | 8 | 22 | Green | Not Listed | Not Listed | Not Listed |
| American Woodcock | <i>Scolopax minor</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Bald Eagle | <i>Haliaeetus leucocephalus</i> | 1 | 1 | Green | Not at Risk | Not Listed | Not Listed |
| Black-capped Chickadee | <i>Poecile atricapillus</i> | 24 | 87 | Green | Not Listed | Not Listed | Not Listed |
| Blue Jay | <i>Cyanocitta cristata</i> | 16 | 37 | Green | Not Listed | Not Listed | Not Listed |
| Brown Creeper | <i>Certhia americana</i> | 10 | 15 | Green | Not Listed | Not Listed | Not Listed |
| Canada Goose | <i>Branta canadensis</i> | 4 | 53 | Green | Not Listed | Not Listed | Not Listed |
| Cedar Waxwing | <i>Bombycilla cedrorum</i> | 1 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Common Raven | <i>Corvus corax</i> | 21 | 36 | Green | Not Listed | Not Listed | Not Listed |
| Dark-eyed Junco | <i>Junco hyemalis</i> | 4 | 30 | Green | Not Listed | Not Listed | Not Listed |
| Downy Woodpecker | <i>Picoides pubescens</i> | 11 | 12 | Green | Not Listed | Not Listed | Not Listed |
| Evening Grosbeak | <i>Coccothraustes vespertinus</i> | 3 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Golden-crowned Kinglet | <i>Regulus satrapa</i> | 24 | 61 | Yellow | Not Listed | Not Listed | Not Listed |
| Gray Jay | <i>Perisoreus canadensis</i> | 1 | 2 | Yellow | Not Listed | Not Listed | Not Listed |
| Hairy Woodpecker | <i>Picoides villosus</i> | 5 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Hermit Thrush | <i>Catharus guttatus</i> | 2 | 3 | Green | Not Listed | Not Listed | Not Listed |
| Magnolia Warbler | <i>Dendroica magnolia</i> | 1 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Mourning Dove | <i>Zenaidura macroura</i> | 1 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Northern Flicker | <i>Colaptes auratus</i> | 1 | 2 | Green | Not Listed | Not Listed | Not Listed |
| Philadelphia Vireo | <i>Vireo philadelphicus</i> | 1 | 1 | Undetermined | Not Listed | Not Listed | Not Listed |
| Pileated Woodpecker | <i>Dryocopus pileatus</i> | 3 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Pine Grosbeak | <i>Pinicola enucleator</i> | 8 | 11 | Red | Not Listed | Not Listed | Not Listed |
| Pine Siskin | <i>Spinus pinus</i> | 1 | 1 | Yellow | Not Listed | Not Listed | Not Listed |
| Red Crossbill | <i>Loxia curvirostra</i> | 1 | 3 | Green | Not Listed | Not Listed | Not Listed |
| Red-breasted Nuthatch | <i>Sitta canadensis</i> | 5 | 7 | Green | Not Listed | Not Listed | Not Listed |
| Red-tailed Hawk | <i>Buteo jamaicensis</i> | 1 | 1 | Green | Not at Risk | Not Listed | Not Listed |
| Ruby-crowned Kinglet | <i>Regulus calendula</i> | 1 | 1 | Yellow | Not Listed | Not Listed | Not Listed |
| Ruffed Grouse | <i>Bonasa umbellus</i> | 4 | 5 | Green | Not Listed | Not Listed | Not Listed |
| Swainson's Thrush | <i>Catharus ustulatus</i> | 1 | 2 | Green | Not Listed | Not Listed | Not Listed |
| White-breasted Nuthatch | <i>Sitta carolinensis</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| White-throated Sparrow | <i>Zonotrichia albicollis</i> | 2 | 14 | Green | Not Listed | Not Listed | Not Listed |
| White-winged Crossbill | <i>Loxia leucoptera</i> | 7 | 14 | Green | Not Listed | Not Listed | Not Listed |
| Yellow-bellied Sapsucker | <i>Sphyrapicus varius</i> | 1 | 1 | Green | Not Listed | Not Listed | Not Listed |
| Yellow-rumped Warbler | <i>Dendroica coronata</i> | 4 | 11 | Green | Not Listed | Not Listed | Not Listed |

APPENDIX E
ELECTROMAGNETIC INTERFERENCE
STUDY CORRESPONDENCE

RCMP Response

Good day,

The Martock proposed wind turbine area should not create a problem to the RCMP as our closest site is 14 km away and Provincial IWAN TMR closest site is approx 4km away.

Please do not hesitate to send me any further questions that you might have.

Thank you,
Francine

From: Francine Boucher [<mailto:FRANCINE.BOUCHER@rcmp-grc.gc.ca>]

Sent: October-03-12 11:56 AM

To: Chris Gallivan

Subject: Re: [12-4402] Review of Proposed Wind Turbine Farm Installation - Martock Nova Scotia

Environment Canada Response

Dear Mr. Chris Gallivan,

Thank you for contacting the Meteorological Service of Canada, a branch of Environment Canada, regarding your wind energy intentions.

Our preliminary assessment of the information provided to us via e-mail on September 14, 2012 indicates that any potential interference that may be created by the Martock Ridge wind farm near Three Mile Plains, Nova Scotia will not be severe. Although we would prefer our radar view to be interference free, this is not always reasonable. As a consequence, we do not have strong objections to the current proposal.

If your plans are modified in any manner (e.g. number of turbines, height, placement or materials) this analysis would no longer be valid. An updated analysis must be conducted.

Please contact us at: weatherradars@ec.gc.ca.

Thank you for your ongoing cooperation and we wish you success.

Best Regards,

Carolyn Rennie
National Radar Program
Meteorological Service of Canada
Environment Canada
4905 Dufferin Street
Toronto, Ontario M3H 5T4
Office : 3N-WS12
Carolyn.Rennie@ec.gc.ca
Phone : 416-739-4931

Department of National Defense Response

I have reviewed your proposal in respect to DND's radio communication systems, and I have no objections or concerns.

Thank you for coordinating with DND.

Have a good Day.

Mr. Mario Lavoie
Spectrum Engineering Technician
National Defence | Défense nationale
Ottawa, Canada K1A 0K2
mario.lavoie2@forces.gc.ca
Telephone | Téléphone 613-992-3479
Facsimile | Télécopieur 613-991-3961
Government of Canada | Gouvernement du Canada



Neil Lovitt <lovitt.neil@gmail.com>

Potential Windfarm Radar Impacts

XNCR, Windfarm Coordinator <Windfarm.Coordinator@dfo-mpo.gc.ca>

Fri, Jun 8, 2012 at 11:12 AM

To: Neil Lovitt <nlovitt@scotianwindfields.ca>

Good morning Mr Lovitt,

Sorry for the delay in responding to you, I had to do some research.

The proposed wind farm (Three Mile Plains) is 50 km away from a CCG radar site. However, no interference issues are anticipated because it is not in the area covered by the radar.

Regards,

Martin Grégoire, P. Eng
Canadian Coast Guard

From: lovitt.neil@gmail.com [mailto:lovitt.neil@gmail.com] **On Behalf Of** Neil Lovitt

Sent: May 15, 2012 12:21 PM

To: XNCR, Windfarm Coordinator

Subject: Potential Windfarm Radar Impacts

[Quoted text hidden]



Neil Lovitt <lovitt.neil@gmail.com>

Detailed Analysis - No Interference - Three Mile Plains Wind Project - Three Mile Plains, NS - WTA-2072

ADIN.SWITZER@forces.gc.ca <ADIN.SWITZER@forces.gc.ca>

Wed, May 23, 2012 at 10:47 AM

To: nlovitt@scotianwindfields.ca, lovitt.neil@gmail.com

Cc: JOCELYN.BELAND@forces.gc.ca

Neil,

We have completed the detailed analysis of your proposed site, Three Mile Plains Wind Project, located near Three Mile Plains, NS (WTA-2072). The results of our detailed analysis have shown that there is likely to be no interference with DND radar and flight operations.

Therefore, as a result of these findings we have no objections with your project as submitted (attached).

If however, the layout were to change/move, please re-submit that proposal for another assessment using the assigned WTA number listed above. The concurrence for this site is valid for 24 months from date of this email. If the project should be cancelled or delayed during this timeframe please advise this office accordingly.

It should be noted that our office looks at each submission on a case by case basis and as such, concurrence on this submission in no way constitutes a concurrence for similar projects in the same area, nor does it indicate that similar concurrence might be offered in another region.

Finally, the concurrence offered in this email extends only to the subject projects and current proponent. Should the project or any part of it be altered, or be sold to another developer, this office must be notified and we reserve the right to reassess the project.

Thank you for your patience on this matter and for considering DND radar and airport facilities in your project development process.

If you have any questions feel free to contact me.

Thank you.

<<SWFI-2001-DND.pdf>>

Adin Switzer

Capt

AEC Liaison Officer

CCISF/ESICC

ATESS/ESTTMA

Défense nationale | National Defence

8 Wing Trenton, Astra, ON K0K 3W0

TEL: [613 392-2811](tel:6133922811) Ext4834 (CSN: 827-4834)FAX: [613 965-3200](tel:6139653200)

Gouvernement du Canada | Government of Canada

ü Please consider the environment before printing this email | S'il vous plaît pensez à l'environnement a

**SWFI-2001-DND.pdf**

1164K



December 12, 2012

Your file
12-4402 Martock Nova Scotia
Our file
12-3736

Mr. Chris Gallivan
Strum Environmental
Railside, 1355 Bedford Highway
Bedford, NS
B4A 1C5

RE: Wind Farm: 3 Wind Turbines - Three Miles Plains, NS
(See attached spreadsheet)

Mr. Gallivan,

We have evaluated the captioned proposal and NAV CANADA has no objection to the project as submitted. Please note that any changes to this proposal would need to be re-assessed for possible impact.

The nature and magnitude of electronic interference to NAV CANADA ground-based navigation aids, including RADAR, due to wind turbines depends on the location, configuration, number, and size of turbines; all turbines must be considered together for analysis. The interference of wind turbines to certain navigation aids is cumulative and while initial turbines may be approved, continued development may not always be possible.

In the interest of aviation safety, it is incumbent on NAV CANADA to maintain up-to-date aeronautical publications and issue NOTAM as required. To assist us in that end, we ask that you notify us at least 10 business days prior to the start of construction. This notification requirement can be satisfactorily met by returning a completed, signed copy of the attached form by e-mail at landuse@navcanada.ca or fax at 613-248-4094. In the event that you should decide not to proceed with this project or if the structure is dismantled, please advise us accordingly so that we may formally close the file.

If you have any questions, contact the Land Use Department by telephone at 1-866-577-0247 or e-mail at landuse@navcanada.ca.

NAV CANADA's land use evaluation is valid for a period of 12 months. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, Industry Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Industry Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA engineering as deemed necessary.

Yours truly,

A handwritten signature in black ink, appearing to read "Aleksandar Trandafilovski".

Aleksandar Trandafilovski
for
David Legault
Manager, Data Collection
Aeronautical Information Services

cc ATLR - Atlantic Region, Transport Canada

APPENDIX F
SOUND MODELLING RESULTS

Table F1: Sound Modelling Results

Project # 12-4402

| Receptor ID | Easting (m) | Northing (m) | Predicted Sound Level (dBA) | Within Town of Windsor Lands? |
|-------------|-------------|--------------|-----------------------------|-------------------------------|
| R1 | 412387 | 4977566 | 28.4 | No |
| R2 | 412396 | 4977511 | 28.8 | No |
| R3 | 412383 | 4977495 | 28.9 | No |
| R4 | 414042 | 4976443 | 26.7 | No |
| RV1 | 412877 | 4975694 | 36.6 | Yes |
| RV2 | 412743 | 4975957 | 39.9 | Yes |
| RV3 | 412678 | 4976085 | 41.3 | Yes |
| RV4 | 412640 | 4976182 | 41.5 | No |
| RV5 | 412558 | 4976051 | 44.3 | No |
| RV6 | 412606 | 4976289 | 41 | Yes |
| RV7 | 412511 | 4976468 | 39.4 | Yes |
| RV8 | 412850 | 4974922 | 33.1 | Yes |
| RV9 | 412508 | 4976700 | 36 | Yes |
| RV10 | 414140 | 4976160 | 26.5 | No |
| RV11 | 413578 | 4976268 | 30 | No |
| RV12 | 413919 | 4977156 | 25.5 | No |
| RV13 | 412983 | 4975974 | 36.2 | Yes |
| RV14 | 413997 | 4977704 | 23.4 | No |
| RV15 | 413596 | 4977337 | 26.2 | No |
| RV16 | 413086 | 4977021 | 30.2 | Yes |
| RV17 | 413006 | 4977178 | 29.5 | Yes |
| RV18 | 413033 | 4977397 | 28.1 | Yes |
| RV19 | 413012 | 4977500 | 27.6 | No |
| RV20 | 412951 | 4977554 | 27.4 | No |
| RV21 | 412904 | 4977580 | 27.4 | No |
| RV22 | 412855 | 4977616 | 27.3 | No |
| RV23 | 412807 | 4977658 | 27.2 | No |
| RV24 | 412020 | 4977883 | 26.6 | No |
| RV25 | 412550 | 4976903 | 33.6 | Yes |
| RV26 | 412553 | 4977017 | 32.5 | Yes |
| RV27 | 412535 | 4977098 | 31.8 | Yes |
| RV28 | 412510 | 4977162 | 31.3 | Yes |
| RV29 | 412466 | 4977248 | 30.7 | Yes |
| RV30 | 412481 | 4976931 | 33.5 | No |
| RV31 | 412497 | 4977048 | 32.3 | No |
| RV32 | 412469 | 4977105 | 31.9 | No |
| RV33 | 412444 | 4977162 | 31.4 | No |
| RV34 | 412419 | 4977216 | 31 | Yes |
| RV35 | 412398 | 4977249 | 30.8 | No |
| RV36 | 411884 | 4976881 | 33.9 | No |
| RV37 | 411855 | 4976851 | 34 | No |
| RV38 | 411623 | 4976680 | 34.7 | No |
| RV39 | 411673 | 4977198 | 30.7 | No |
| RV40 | 411920 | 4977452 | 29.2 | No |
| RV41 | 411554 | 4977059 | 31.4 | No |
| RV42 | 409959 | 4975862 | 28.4 | No |
| RV43 | 410149 | 4975893 | 29.5 | No |
| RV44 | 410840 | 4975586 | 35.7 | No |
| RV45 | 409994 | 4976480 | 27.2 | No |
| RV46 | 410800 | 4976007 | 33.9 | No |
| RV47 | 410244 | 4976848 | 27.2 | No |
| RV48 | 411,011 | 4,976,677 | 31.6 | No |

Table F1: Sound Modelling Results

Project # 12-4402

| Receptor ID | Easting (m) | Northing (m) | Predicted Sound Level (dBA) | Within Town of Windsor Lands? |
|-------------|-------------|--------------|-----------------------------|-------------------------------|
| RV49 | 411,205 | 4,974,105 | 34.7 | Yes |
| RV50 | 412,806 | 4,977,915 | 25.8 | No |
| RV51 | 412,250 | 4,973,066 | 26.3 | No |
| RV52 | 410,851 | 4,973,139 | 26.4 | No |
| RV53 | 410,371 | 4,973,295 | 25.8 | No |
| RV54 | 409,677 | 4,975,256 | 27.2 | No |
| RV55 | 409,645 | 4,974,456 | 26.3 | No |
| RV56 | 409,645 | 4,974,366 | 26.1 | No |
| RV57 | 409,767 | 4,975,466 | 27.7 | No |
| RV58 | 409,830 | 4,975,918 | 27.5 | No |
| RV59 | 410,436 | 4,975,069 | 32.4 | No |
| RV60 | 412,184 | 4,973,346 | 28 | No |
| RV61 | 412,913 | 4,973,781 | 28 | No |
| RV62 | 412,173 | 4,974,157 | 34 | Yes |
| RV63 | 413,414 | 4,974,207 | 27.5 | No |
| RV64 | 412,086 | 4,974,491 | 37.6 | Yes |
| RV65 | 412,598 | 4,975,974 | 43.1 | Yes |
| RV66 | 412,675 | 4,975,849 | 40.5 | No |
| RV67 | 412,795 | 4,975,376 | 35.6 | Yes |
| CAMP1 | 410,268 | 4,976,163 | 29.6 | No |
| CAMP2 | 410,316 | 4,974,063 | 29 | No |
| CAMP3 | 410,511 | 4,974,690 | 32.6 | No |
| CAMP4 | 410,908 | 4,974,551 | 36.1 | No |
| CAMP5 | 411,042 | 4,975,053 | 38.9 | No |
| CAMP6 | 411,115 | 4,974,857 | 40.4 | Yes |
| CAMP7 | 410,944 | 4,973,470 | 28.5 | No |
| CAMP8 | 411,603 | 4,974,053 | 35.1 | No |
| CAMP9 | 412,128 | 4,976,447 | 40.5 | No |
| CAMP10 | 412,650 | 4,974,344 | 32 | No |
| CAMP11 | 412,765 | 4,976,317 | 38.2 | No |
| CAMP12 | 412,173 | 4,975,499 | 41.5 | Yes |

APPENDIX G
COMMUNITY ENGAGEMENT

Martock Ridge Wind Turbine Project



Proposed location of turbine, with prevailing winds shown

About the Project

Scotian Wind is working towards installing three wind turbines in Martock. The proposed project would be located just off Mountain Road, near Mill Lakes. Scotian Wind is in the early stages of this multiyear project and is currently planning to collect data about the nature of the wind regime using a meteorological tower on the site. This study will help us learn about the characteristics.

The proposed capacity of the turbines we expect to put on site is just under 6 Megawatts, producing enough energy to power 2000 households. The tower for these turbines is projected to be approximately 80 meters high, with each blade measuring about 45 meters in length.

Why we've contacted you

We understand some people have concerns about wind energy. We are here to listen to your concerns and help you understand the facts. Wind turbines are not a new technology, but they may be new to your area. We are distributing this newsletter to inform you about the proposed project and to dispel some of the myths surrounding wind turbines. But this is just the beginning. This is the first in a series of informational letters and public meetings that will keep you in the loop. This project represents an important opportunity for Wedgeport to transition to renewable energy sources, and we are here to help foster a sense of community pride surrounding it.

Turbines near Martock

The nearest large wind turbines to Martock are located at the Dalhousie Mountain Wind Farm, near Mount Thom. These turbines are about the same height and size as the turbines that Scotian WindFields intends to install in Martock, and have been in operation since 2010.

Visiting a turbine is a great way to get a sense of the sound and scale of today's industrial wind turbines.

Community Electricity

The provincial government has established clear targets for clean energy: 25% of our electricity is to be renewable by 2015, with a goal of 40% by 2020. The Community Feed-In Tariff (ComFIT) program is designed to help our province meet that goal. The program recognizes that small community-owned projects are an effective way to reach our goals in a way that maximizes benefits for all Nova Scotians while strengthening the electricity grid. This vision will shift ownership from the virtual monopoly currently held by Nova Scotia Power to a decentralized structure that would see many small groups owning our electricity sources.

In order for Martock Ridge to be eligible for the ComFIT program, at least 25 citizens from the county in which the turbine will be installed must invest in it.

The ComFIT program is beneficial because all of the electricity produced by the turbine will be consumed at a truly local level; only the people who are connected to the same electrical substation as the turbine can use its power.

You're not alone

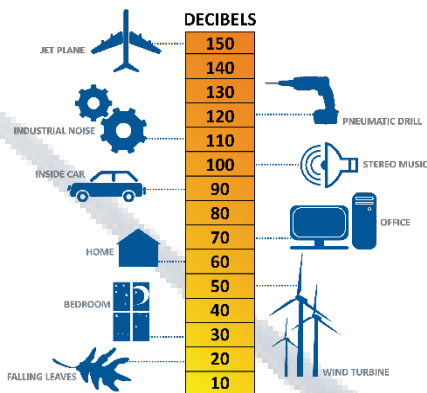
Wind energy is cited by the International Energy Agency as the world's fastest growing energy resource. Worldwide, the combined capacity of all wind turbines is over 195 GW; the equivalent of 100,000 of the turbines Scotian WindFields proposes installing in your community.

In Nova Scotia, there are already over 100 of these turbines installed throughout the province. Communities across Nova Scotia are taking responsibility for the generation of their energy and enjoying the benefits that come with local electricity production.



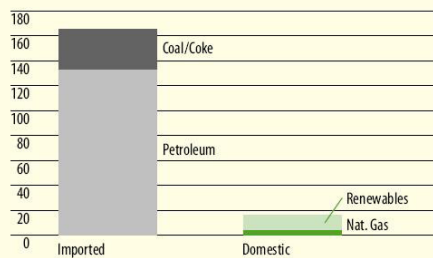
www.scotianwindfields.ca

Wind Power In Nova Scotia



The levels of noise intensity associated with various everyday sounds.

Nova Scotia Total Energy Use
Import and Domestic 2005 (petajoules)



Sound

Over the past 30 years, more than 60,000 wind turbines have been installed around the world. Each turbine must meet strict environmental requirements, including: abiding by minimum setbacks from nearby homes that limit the possibility of noise pollution.

New technologies have allowed the sound produced by industrial turbines to decrease substantially over the years.

Thousands of people have been living near large wind turbines for decades, a relatively small number of those people experiencing negative effects.

Community Dividend

More than 800 Nova Scotian families share in ownership of Scotian WindFields. As your neighbours we want to share the dividends with the communities where our projects are located. That is why Scotian WindFields has committed to donate 1% of the revenue from this project to your community for its chosen community activity or cause. This dividend could be as much as \$10,000, annually and could be used for school programs, local scholarships, community recreation programs or facilities. The use of proceeds will be up to the community to decide.

Energy Security

Wind is a safe, locally produced source of energy that will lessen our dependence on foreign sources of fuel. Once a wind turbine is installed, it produces electricity at a fixed price for 20 years, as shown in the figure below. With the price of oil and coal expected to keep rising with each passing year, wind power offer Nova Scotians assurance electricity bills won't do the same.

We're listening

We're here to answer your questions. Please do not hesitate to contact us.

Gay Harley
902-482-4308
gay.harley@scotianwindfields.ca

Climate Change

Climate change is happening at a rapid pace. During the twentieth century Nova Scotia's sea level rose approximately 30 centimeters. Researchers expect an additional increase from 70 to 140 cm over the next century.

The province has 13,300 kilometers of coastline, which makes it particularly sensitive to coastal impacts. The relative rise in sea level and more intense storms, cause larger storm surges. This means more damage to people, property, infrastructure, wildlife, and ecosystems across the province.

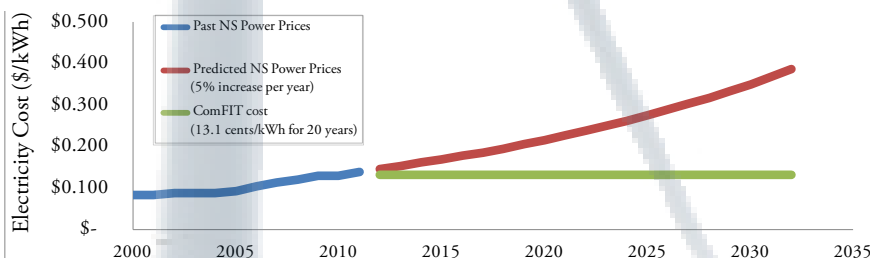
By using wind power to lower our greenhouse gas emissions, Nova Scotia is helping in the fight to curb global climate change.

Better health with wind

Several peer-reviewed studies have focused on the impacts of wind turbines on human health. In 2009, Ontario's Chief Medical Examiner concluded that though some people find the sound of wind turbines "annoying". She could find "no conclusive evidence that turbines have an effect on health." Scotian WindFields is committed to ensuring that none of our projects have a negative impact on the health of those who live nearby.

According to Statistics Canada, Nova Scotia consistently leads the nation with the highest asthma rates in Canada and is the leader in most forms of cancer. These detrimental and deadly health effects are related to our dependence on coal-fired generation as our chief electricity source and the associated toxic emissions.

Nova Scotia's per capita emissions of carbon monoxide, particulate matter, sulphur oxides, and volatile organic compounds are higher than the averages of any industrialized country worldwide.



The power from the turbine would be sold at the same price for 20 years while coal and oil costs continue to rise

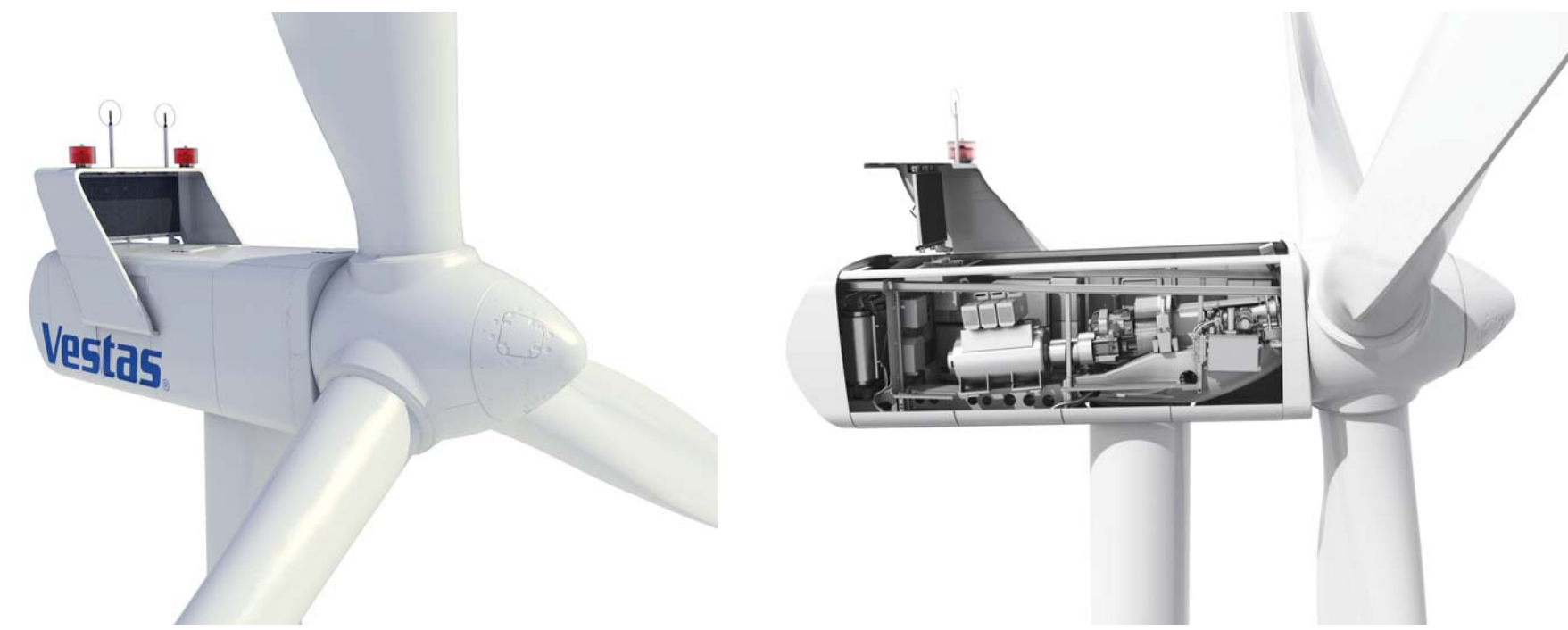
The Turbine



This wind energy project uses the Vestas V100 wind turbine. Vestas, a Danish company, is a long time pioneer in wind energy. Its new V100 model represents cutting edge design and technology, built on extensive testing and experience gained from the 9700+ 2MW class turbines installed worldwide



The Nacelle



The housing that contains all of the generating components of the turbine. Inside you will find the generator, gearbox, drive train and brake assembly.

The Blades

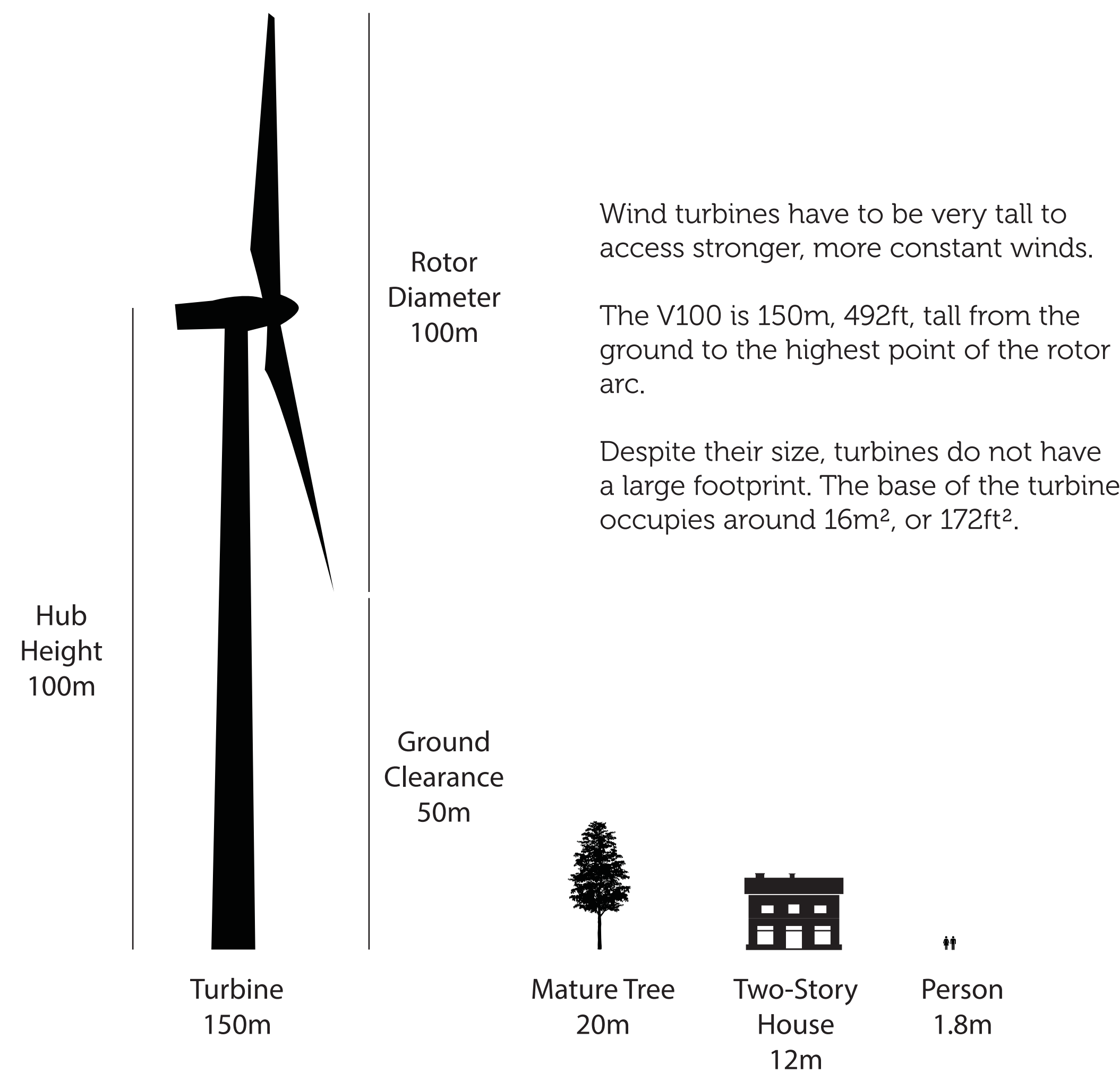


The V100 blades are about 50 metres, 164 feet, long. Each of the three are made using lightweight composite materials to improve energy efficiency.

The longer the blade, the more wind it is able to capture energy from. The total swept area of the rotor is almost 2 acres.

Because they are so long, the tips of the blades can travel at very high speeds. However, the entire rotor spins at a maximum of 15rpm, which appears quite relaxed to the observer.

The Height



Manufacturer Specs

Generator Max Capacity: 2MW
 Cut-in Wind Speed: 3m/s (11km/h, 6knots)
 Cut-out Wind Speed: 20m/s (72km/h, 39knots)
 Maximum Output at: 12.5m/s (45km/h, 24knots)
 Operating Temperature Range: -20C to 40C
 (-30C with cold weather package)

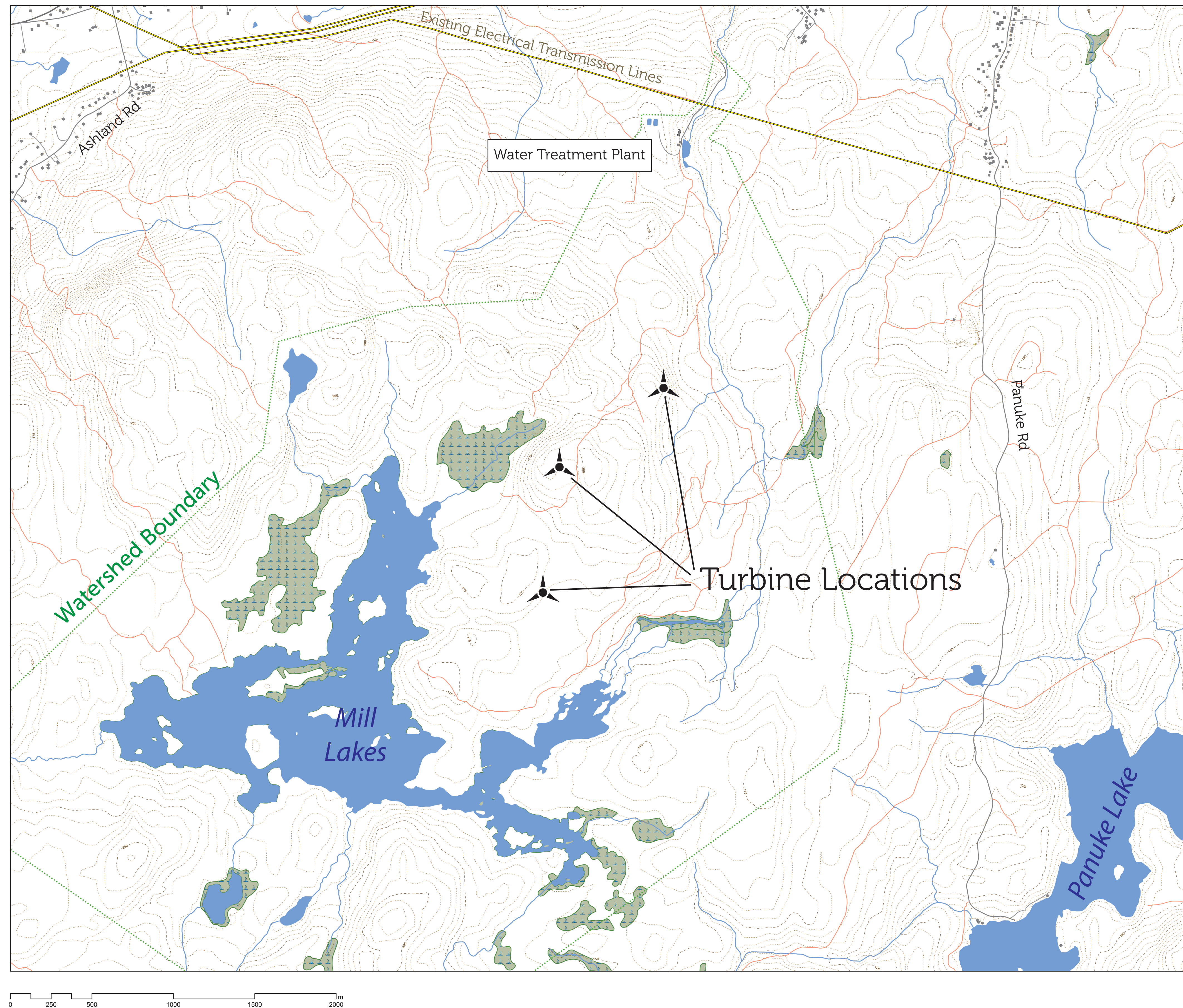
Sound Power
 max: 105 dB(A)

Rotor Diameter: 100m
 Swept Area: 7850m²
 Revolution Speed: 8.8-14.9rpm
 Brake System: Blade Pitch Control + Hydraulic Disk Brake

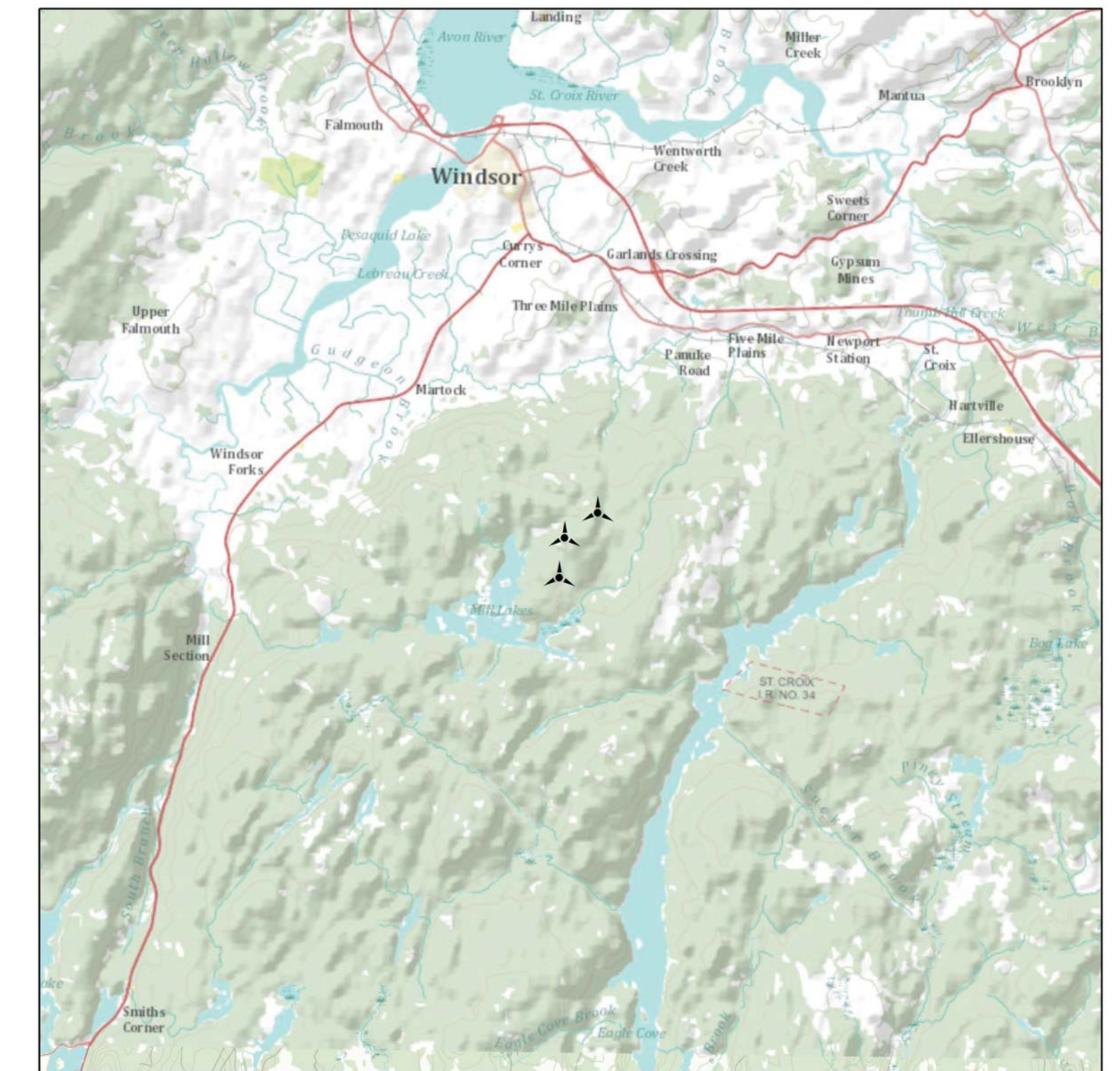
Tower Height: 100m, Tubular Steel

In addition to manufacturer standard systems, the turbine will be equipped with an advanced real-time monitoring system. Sensors throughout the nacelle feed operational data to a manned control centre. Any irregularities can be identified 24/7/365 to ensure early preventative action is taken.

Site Map



Regional Context Map



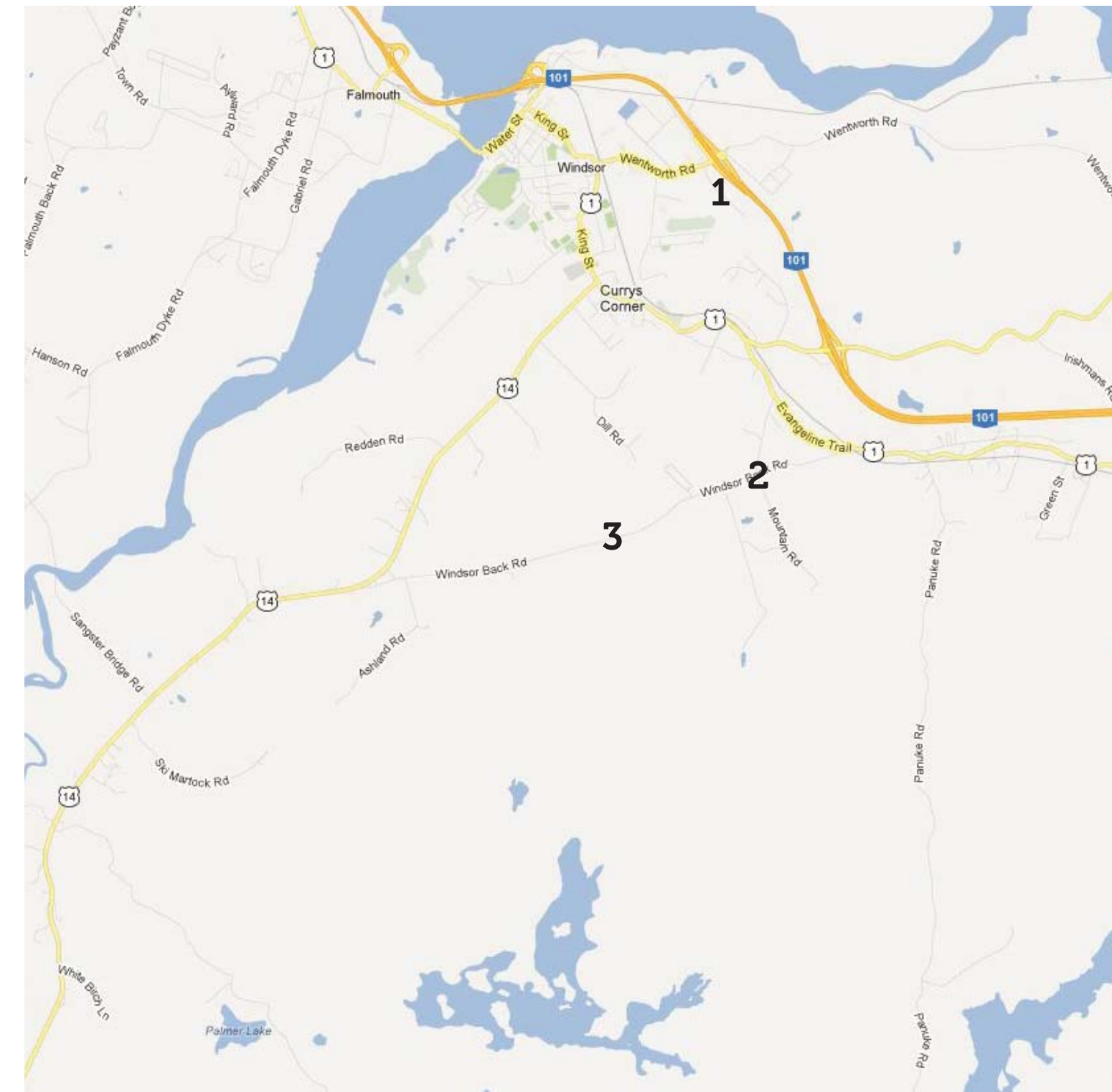
Project Summary - Martock Ridge Community Wind Farm

- 3 x 2MW Vestas V100 Wind Turbine Generators
- Production equivalent to consumption of 2000 homes
- 100% of power generated is consumed in local area
- Awarded conditional approval from NS Dept of Energy
- Environmental Assessment is underway
- Wind data collection is ongoing
- Municipal Development Agreement required (not initiated)
- Target Installation - Late Summer 2013

Visual Estimates

It can be difficult to guess what a wind power project is going to look like in your community. The following images can help you get an idea of how much of the turbine will be visible, and from where.

Since turbines are best sited on high elevations where wind speeds are faster, they can usually be seen from a great distance away. While these turbines will be visible in many areas of the surrounding community, the large separation distances will prevent them from dominating the view.



View 1



View 3



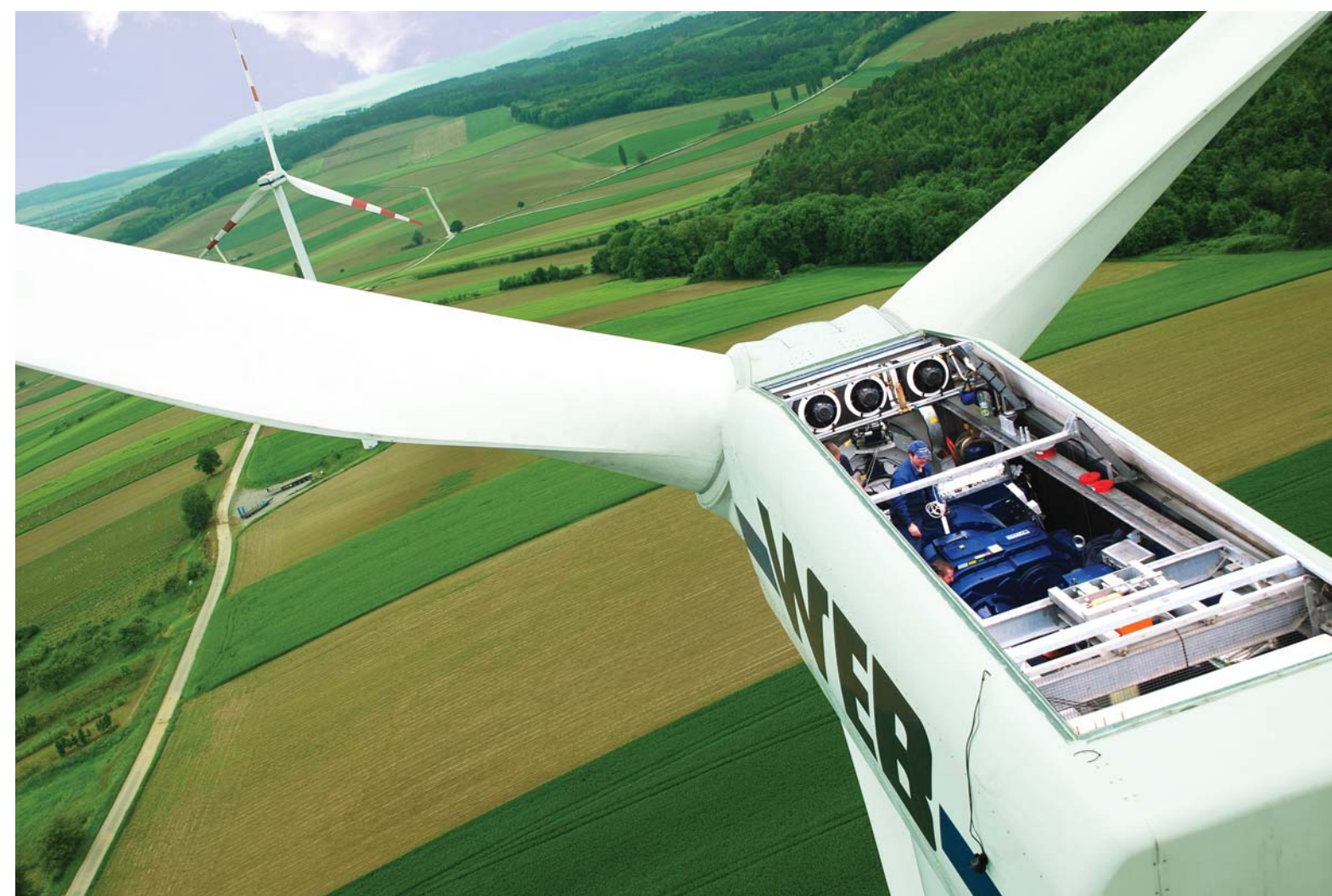
View 2

Global

Wind turbine generators have been producing renewable electricity for decades. Countries such as the Netherlands, Denmark, Germany and Spain have shown that wind energy is a safe, effective means to produce electricity without the negative impacts on the climate, air and water quality associated with conventional fossil-fuel based generation.

As fuel costs and concerns over carbon emissions rise, many countries are now encouraging the deployment of wind power at a massive scale. With the UK, US, India, Australia, and China all investing heavily, wind power is the fastest growing method of electrical generation in the world.

Scotian WindFields has partnered with WEB Wind Energie, a pioneering Austrian wind energy company, to develop projects in Nova Scotia. With over 250MW of wind energy generators in operation, some for as long as 18 years, WEB gives our local development process access to the global wealth of experience.

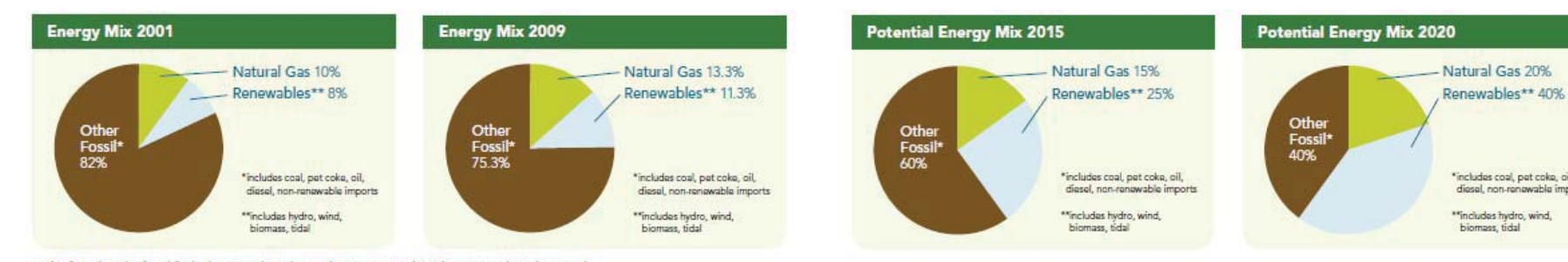


A WEB facility operating in Europe. (C) Alexander Zechmeister

Provincial

While there have been several wind power projects constructed in Nova Scotia in recent years, it is still relatively unfamiliar to many. That is quickly changing; wind energy is set to become a substantial component our province's electricity generation mix.

In recognition of the potential impacts of climate change in a province of coastal communities, and the susceptibility of power rates to forecasted fuel price escalation, the NS Government legislated goals for renewable energy generation.



Source: NS Dept. of Energy Renewable Electricity Plan (2010)

To help reach those goals, a Community Feed-In Tariff (COMFIT) program was established to encourage local production and distribution of renewable electricity by independent community-based project developers. The structure of COMFIT ensures that 100% of the power generated by these projects is used by the homes, businesses, and industries in the communities they are located.

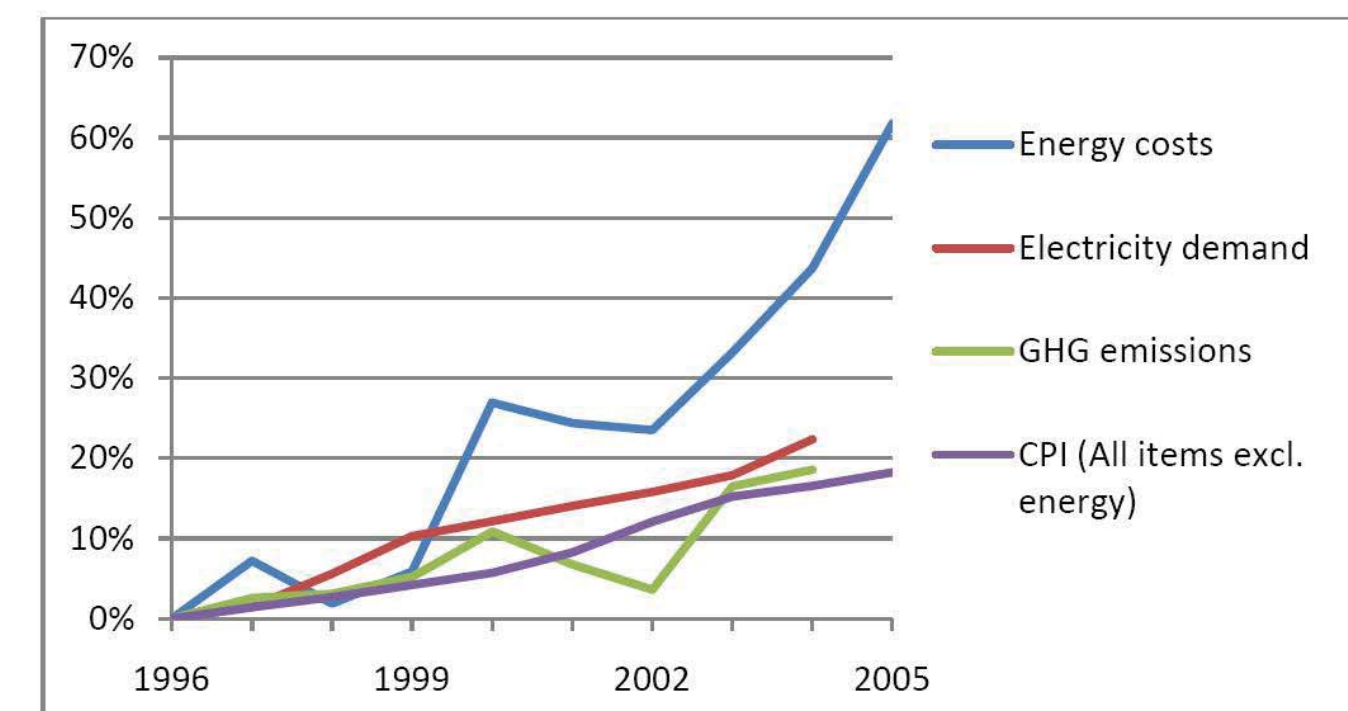


Figure 1: Growth in energy cost, electricity demand, greenhouse gases, and the CPI for Nova Scotia
 (Stats Can 2007a; Env Can 2006) Source: Hughes, Energy Security in Nova Scotia,

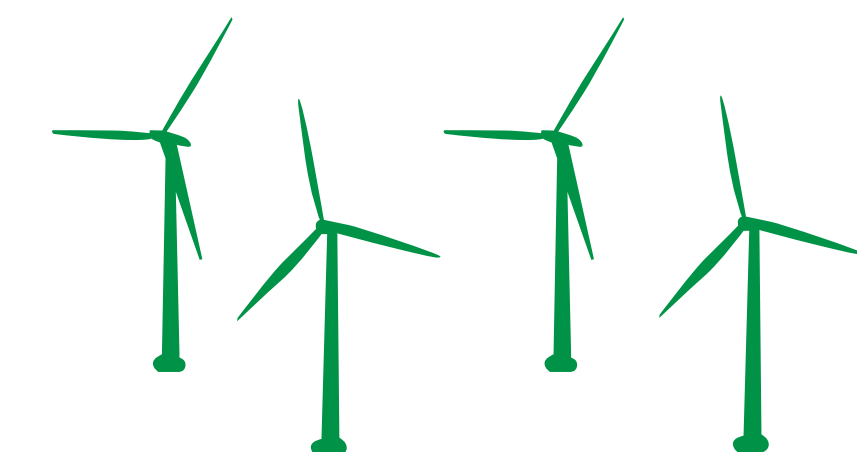
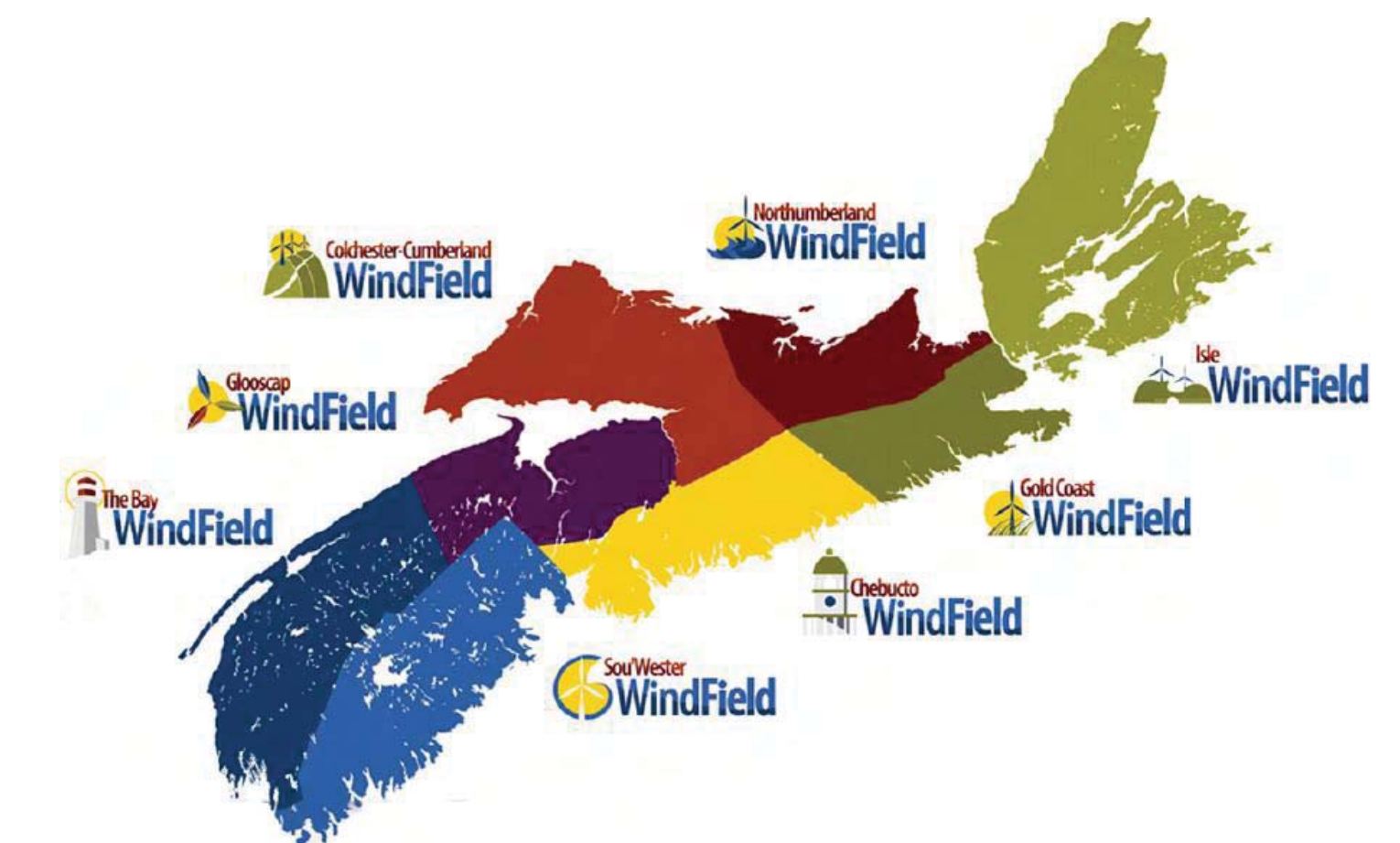
Though projects are paid a premium for the power they produce in today's terms, that rate is locked for 20 years. Over that period, prices for fossil fuel-based energy will continue to climb as they always have. Introducing more renewable power now will help stabilize long term rates.

Community

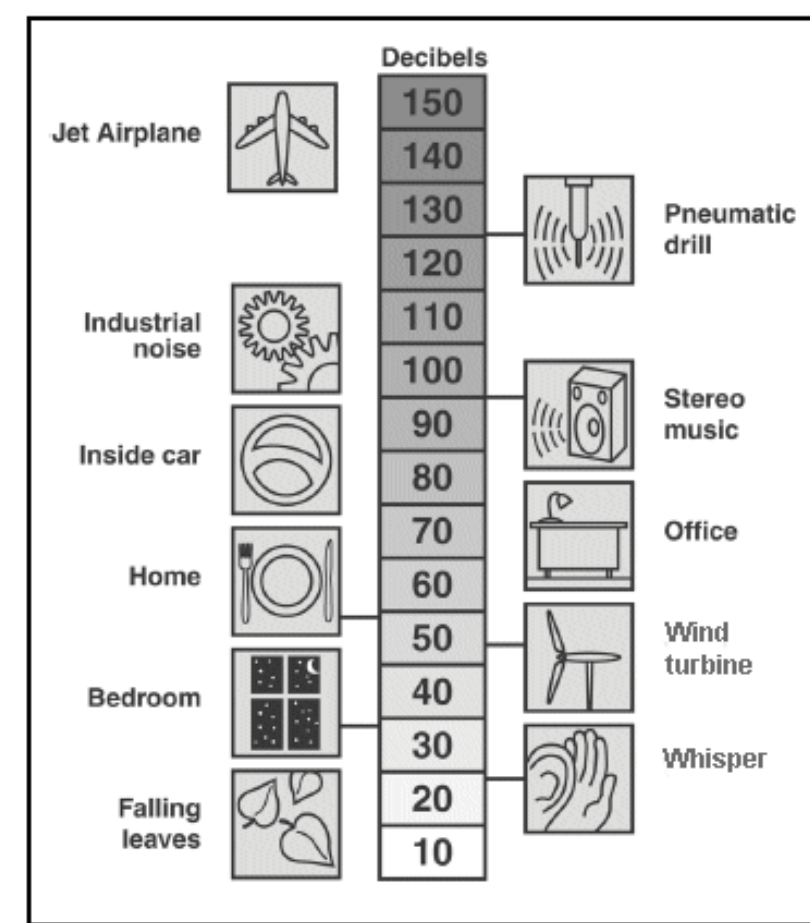
1% Scotian WindFields allocates 1% of gross project revenue for investment back into the local area. How this dividend is spent is decided by the community.

Community Ownership

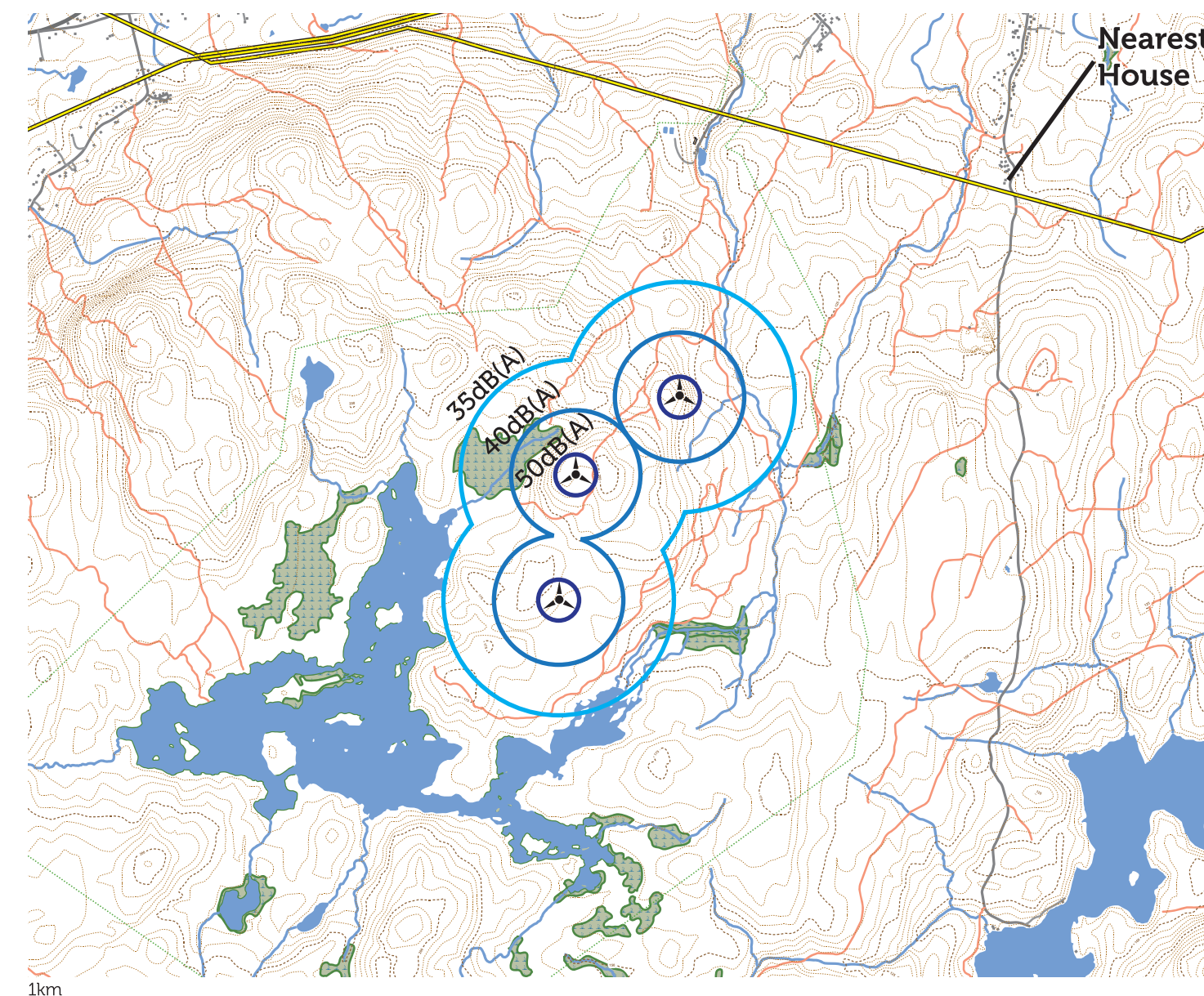
The corporate structure of Scotian WindFields enables Nova Scotians to participate directly in renewable energy development by investing in their local WindField CEDIF.



Right:
Typical sound levels; wind turbines are usually regulated to be between 40 and 45 decibels at the nearest dwelling.



Below:
Predicted sound levels. This is a rough preliminary estimate.



Sound

One of the most common concerns community members have when learning of a proposed wind energy project is the question of how the turbine will sound, and how noticeable it will be.

All turbines produce sound if they're producing electricity. Operating turbines are often described as producing an audible "woosh" sound as the blade passes in front of the tower. While the preference for the sound varies by personal taste, the power of the sound is measurable. Due to their size, a turbine's sound cannot be mitigated easily through engineered solutions, such as sound walls that are sometimes built along highways.

The most common method of ensuring wind turbine sound does not adversely affect quality of life is simply by locating them away from sensitive land uses, such as residences. Some debate exists over what distance is appropriate to achieve this, partially due to the fact that the distance sound travels can be affected by site specific factors, such as topography, amount of forest cover, and local weather conditions. Sound levels are investigated using detailed computer modeling software as part of the Environmental Assessment process and the predicted worst-case scenario must fall within acceptable standards.

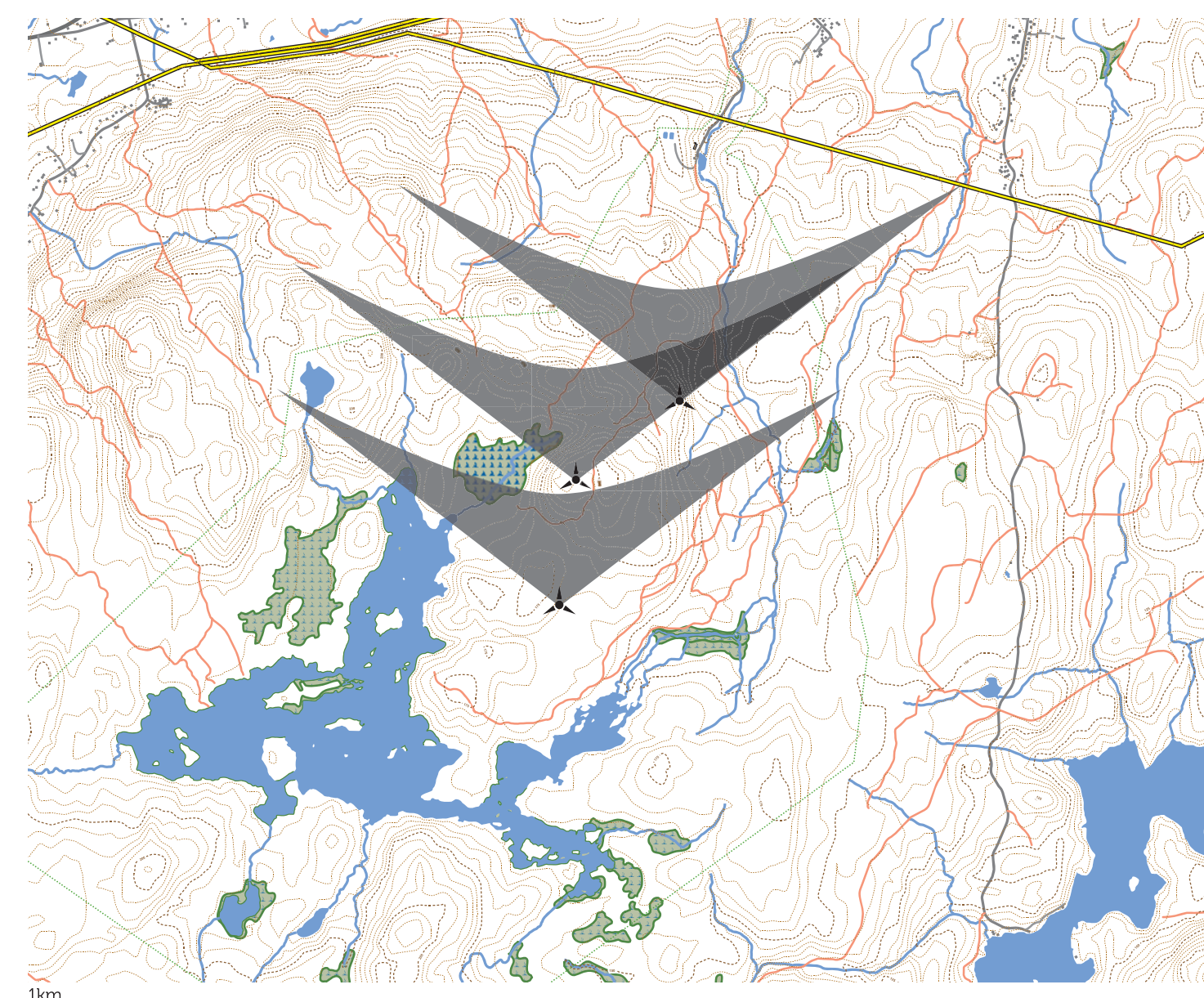
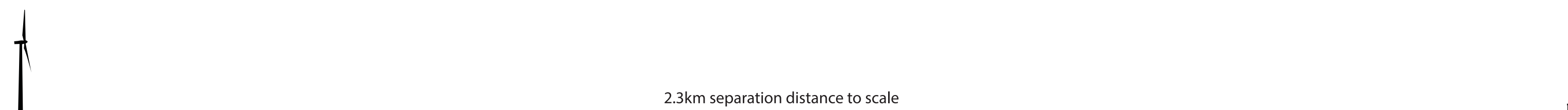
In Nova Scotia, set-back distances from houses vary by municipality, from around 200m up to 1000m. Our proposed location exceeds even the strictest standards. The closest building is the water treatment plant at around 1.5km. The nearest house is around 2.3km away. At these distances we do not expect turbine noise to create any issues.

Shadow

Another common concern with large scale wind energy projects is the potential for flickering shadows to be cast on neighbouring houses if the sun is shining directly through the rotating blades.

This issue will also be investigated in detail as part of the EA process, however, given that the proposed turbine location is far to the west and south of houses in the area, the potential for negative impact is low.

The graphic to the left shows a rough estimate of the maximum shadow zone; modeled for the winter solstice (approx Dec. 21) which is the day when the sun is lowest, and shadows are longest.



Environmental

In conformance with the Environment Act, a full Environmental Assessment is being undertaken as part of this project. Many of the field studies for this are already being conducted, and the public participation component has yet to come. A preliminary investigation has identified significant bird and bat areas within 10km of the project site, and those will certainly be studied further in the EA process.

This project will be located in the Mill Lakes Surface Water Supply Area.

In addition to typical environmental studies and precautions, this project will be subject to expanded regulation by the Province. It is our objective to not only meet the current rules guiding land use in the watershed area, but accommodate any potential protective measures the Watershed Committee is considering. Working with the Province, the Watershed Committee, municipal staff, and third-party environmental engineering consultants we can ensure the water supply remains protected.

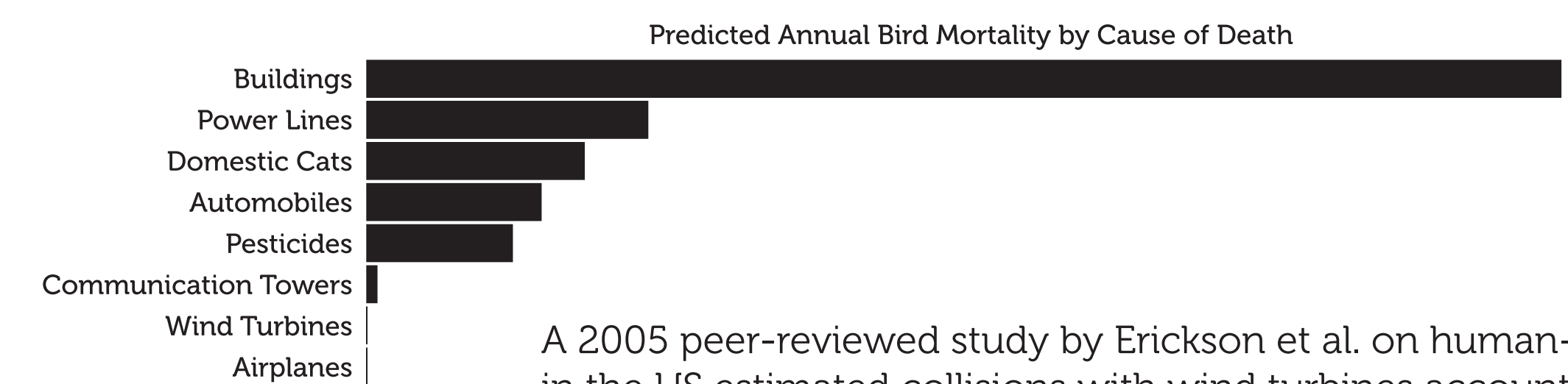
The greatest risks to water quality are during the construction phase when the potential for erosion and sediment runoff is highest. Well established precautionary steps can be taken to contain these problems, and all road construction and water crossings are regulated at the provincial level.

Once in operation, wind turbines present very little potential hazard. With construction complete, access infrastructure can be reduced if necessary, and no emissions are released by the turbines themselves. Oil, grease and coolant will be present in the nacelle. The systems that rely on these chemicals are subject to 24h live monitoring. Any leaks can be detected quickly and responded to by local service crews. The release of these chemicals into the environment is highly unlikely due to the self-contained design of the turbine.

We are committed to developing this project in a safe, responsible manner. With employees and family members counted among those who rely on this source, your water is also our water.

Impacts in Context

No development is without its adverse impacts. While we are trying our best to ensure this project is carried out in an environmentally sensitive way, any time people alter the natural world, there are going to be negative impacts. It is important to consider the context of those impacts. For example, wind turbines are known to be a cause of bird and bat kills, but the degree to which they affect bird populations is comparatively small to many other human activities. All things considered, wind energy is still among the most environmentally friendly forms of power generation.



A 2005 peer-reviewed study by Erickson et al. on human-caused bird fatalities in the US estimated collisions with wind turbines accounted for approximately 28,500 deaths out of 500,000,000.