

Job Number:

Observer:

Polygon 6

[illegible]

SITE LOCATIONS

1: _____
2: _____
3: _____

4: _____
5: _____
6: _____



Legend

- Turbine Location
- Road Turn-Around
- Collection Line Layout
- Access Road Layout
- Turbine Turn-Around Box
- Collection Line 20m Buffer
- Access Road 60m Buffer
- Area of Disturbance 120m Buffer
- Natural Feature

Roads

- Major Road
- Local Road

Water Features

- Intermittent Stream
- Permanent Stream

Map Information

Map Scale: 1:10,000
 North Arrow
 Date: 10/10/2011
 Project: 10/10/2011

Feature 361

December 2011
 10/10/2011

AECOM

Northline Energy Canada, U.S.C.
 Canadian Wind Energy Centre

Figure 1

ELC Community Description and Classification	Map #: 261 G-4 1310	Polygon: 1
	Surveyor(s): S6 TS	Date: July 3, 2012
	UTMz: 1	UTMz: 1
	Time start: 4:20 pm	Time finish: 4:40 pm
	UTMz: 1	

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD	☐ River
	☐ Acidic Bedrk.	☐ Terrace	☐ Graminoid	☐ Stream
Site	☐ Basic Bedrk.	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Open Water	☐ Carb. Bedrk.	☐ Fableland	☐ Lichen	☐ Swamp
☐ Shallow Water	☐ Carb. Bedrk.	☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Surficial Dep.		☐ Cliff	☐ Deciduous	☐ Bog
☐ Bedrock		☐ Talus	☐ Coniferous	☐ Barren
History		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Natural		☐ Alluv		☐ Prairie
☐ Cultural		☐ Rockland		☐ Thicket
Cover		☐ Beach / Bar		☐ Savannah
☐ Open		☐ Sand Dune		☐ Woodland
☐ Shrub		☐ Bluff		☐ Forest
☐ Tree				☐ Plantation

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than, > Greater Than, = About Equal To)
1	2	4	<i>Fr. penn</i> > <i>T. minor</i> = <i>Ac. fr.</i>
2	2	3	<i>Fr. penn</i> >> <i>vinear</i>
3	1	2	<i>Fr. penn</i>
4			- <i>Fr. penn</i> ! see

Stand Composition:	Size Class Analysis:	ϕ	ϕ	ϕ	R
BA:	Standing Snags:	?	?	?	?
	Deadfall / Logs:	?	?	?	?

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth
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Ecosite:	fresh - moist lowland area. var.	Code:	F0D7
Vegetation Type:	fresh - moist Ash lowland etc.	Code:	F007-2
Inclusion:		Code:	
Complex:		Code:	

Table 1. *Continued*

[illegible]

	Pit/Auger #						Summary	
Site Metrics	UTM	Zone						
		Easting						
	Slope	Northing						
		Position						
		Aspect						
		Percent Slope Length						
Mottles								
Gley								
Water Table								
Carbonates								
Depth to ...	Bedrock	1	Depth from zero	% CF	% CF	% CF	% CF	
			Texture					
		2	Depth from zero	% CF	% CF	% CF	% CF	
			Texture					
		3	Depth from zero	% CF	% CF	% CF	% CF	
			Texture					
		4	Depth from zero	% CF	% CF	% CF	% CF	
			Texture					
Soil Horizon Description		% Surface Stone/Rock						
		Moisture Regime						
	Drainage							

Trees & Shrubs						Tree & Shrubs						Grasses					
Conifers						Deciduous						Grasses					
Balsam Fir (<i>Abies balsamea</i>)						White Oak (<i>Quercus alba</i>)						Giant Redtop (<i>Agrostis gigantea</i>)					
Common Juniper (<i>Juniperus communis</i>)						Bur Oak (<i>Quercus macrocarpa</i>)						Redtop (<i>Agrostis stolonifera</i>)					
Eastern Red Cedar (<i>Juniperus virginiana</i>)						Red Oak (<i>Quercus rubra</i>)						Awnless Brome (<i>Bromus inermis</i>)					
Tamarack (<i>Larix laricina</i>)						Alder Buckthorn (<i>Rhamnus alnifolia</i>)						Bromus					
Norway Spruce (<i>Picea abies</i>)						Common Buckthorn (<i>Rhamnus cathartica</i>)						Blue-joint Grass (<i>Calamagrostis canadensis</i>)					
White Spruce (<i>Picea glauca</i>)						Smooth Sumac (<i>Rhus glabra</i>)						Orchard Grass (<i>Dactylis glomerata</i>)					
Black Spruce (<i>Picea maritima</i>)						Silky Sphagnum (<i>Rhus typhina</i>)						Poverty Oat Grass (<i>Oenothera spicata</i>)					
Jack Pine (<i>Pinus banksiana</i>)						Wild Black Currant (<i>Ribes americanum</i>)						Quack Grass (<i>Elymus repens</i>)					
Red Pine (<i>Pinus resinosa</i>)						Prickly Gooseberry (<i>Ribes cynosbat</i>)						Virginia Wild Rye (<i>Elymus virginicus</i>)					
Eastern White Pine (<i>Pinus strobus</i>)						Swamp Black Currant (<i>Ribes lacustre</i>)						Elymus					
Scotch Pine (<i>Pinus sylvestris</i>)						Red Currant (<i>Ribes rubrum</i>)						Fowl Manna Grass (<i>Glyceria striata</i>)					
Canada Yew (<i>Taxus canadensis</i>)						Ribes						Glyceria					
Eastern White Cedar (<i>Thuja occidentalis</i>)						Black Locust (<i>Robinia pseudo-acacia</i>)						Rice Cut Grass (<i>Leersia oryzoides</i>)					
Eastern Hemlock (<i>Tsuga canadensis</i>)						Prickly Rose (<i>Rosa acicularis</i>)						Tall Fescue (<i>Lolium arundinaceum</i>)					
						Smooth Rose (<i>Rosa blanda</i>)						Muhlenbergia					
						Mullein Rose (<i>Rosa multiflora</i>)						Witch-grass (<i>Panicum capillare</i>)					
						Rose						Panicum					
						Corn Blackberry (<i>Rubus allegheniensis</i>)						Reed Canary Grass (<i>Phalaris arundinacea</i>)					
						Wild Red Raspberry (<i>Rubus idaeus</i>)						Timothy (<i>Phleum pratense</i>)					
						Black Raspberry (<i>Rubus occidentalis</i>)						Common Reed (<i>Phragmites australis</i>)					
						Purple-B. Raspberry (<i>Rubus odoratus</i>)						Canada Blue Grass (<i>Poa compressa</i>)					
						Dwarf Raspberry (<i>Rubus pubescens</i>)						Fowl Meadow Grass (<i>Poa palustris</i>)					
						Rubus						Kentucky Bluegrass (<i>Poa pratensis</i>)					
						Peach-leaved Willow (<i>Salix amygdaloides</i>)						Yellow Foxtail (<i>Setaria pumila</i>)					
						Bebb's Willow (<i>Salix bebbiana</i>)						Green Foxtail (<i>Setaria viridis</i>)					
						Pussy Willow (<i>Salix discolor</i>)											
						Masson Willow (<i>Salix encarpata</i>)											
						Sandbar Willow (<i>Salix exigua</i>)											
						Shining Willow (<i>Salix lucida</i>)											
						Black Willow (<i>Salix nigra</i>)											
						Slender Willow (<i>Salix petiolata</i>)											
						Salix											
						Hybrid Crack Willow (<i>Salix X ruberta</i>)											
						Black-berried Elder (<i>Sambucus nigra</i>)											
						Red-berried Elder (<i>Sambucus racemosa</i>)											
						Buffaloberry (<i>Shepherdia canadensis</i>)											
						Eur. Mountain Ash (<i>Sorbus aucuparia</i>)											
						Narrow Meadow-sweet (<i>Spiraea alba</i>)											
						Common Lilac (<i>Syringa vulgaris</i>)											
						Poison-ivy (<i>Toxicodendron rydbergii</i>)											
						Climbing Poison-ivy (<i>Toxicodendron radicans</i>)											
						White Elm (<i>Ulmus americana</i>)											
						Siberian Elm (<i>Ulmus pumila</i>)											
						Glossy Elm (<i>Ulmus rubra</i>)											
						Low Blueberry (<i>Vaccinium angustifolium</i>)											
						Maple-leaf Viburnum (<i>Viburnum acerifolium</i>)											
						Hobblebush (<i>Viburnum lentago</i>)											
						Hannyberry (<i>Viburnum lentago</i>)											
						Golden-Rose (<i>Viburnum opulus</i>)											
						Downy Arrow-wood (<i>Vib. rafinesquianum</i>)											
						Riverbank Grape (<i>Vitis riparia</i>)											
						Am. Prickly-ash (<i>Zanthoxylum americanum</i>)											
														</			



Page 1 of 2

D - Dominant: represented by large numbers, generally forming >10% ground cover or >25% vegetation cover in any one stratum
F - Fairly common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover
U - Uncommon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this category)
R - Rare: represented in the polygon by less than one individual or small clumps

Date: June 7, 2012

Surveyors: 21.1

* ASA *

Significant Wildlife Habitat Form

AZCOM

Study Area:	BLW	JER	<u>GSH</u>	Map #:	<u>362-GSH 1310</u>
Date:	<u>2012-06-07</u>			Time Started:	<u>10:35 a.m.</u>
Field Staff:	<u>Tom Shirley Jess Pett</u>			Time Finished:	<u>11:20 a.m.</u>
Weather Conditions:	<u>Sunny, 21°C, 15km/h breeze</u>				

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat

(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☒ No ☐ Yes (if yes, photograph and complete the following)

UTMs: _____ Number of nests: _____

Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present): _____

Description of habitat (note riparian areas if present, evidence of disturbance): _____

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding Birds

(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD, SWT1, SWT2)

(FOC, FOM, FOD, SWC, SWM, SWD, BOO1, FEO1)

Standing water present: ☒ No ☐ Yes (if yes, photograph and complete the following)

UTMs: _____ Area of standing water delineated on field map

Water depth (m): _____ % open water: _____ % emergent vegetation: _____

Potential to hold water until at least July in most years: Yes / No

Description of standing water (permanent pool, evidence of annual spring flooding, etc): _____

Area and soil/substrate of shoreline habitat: _____

Type and abundance of cover in open water habitat: _____

Type and abundance of cover in surrounding habitat: _____

Evidence of disturbance (e.g. cattle grazing): _____

Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: _____

Complete Vernal Pool Habitat Description Form

Snake Hibernacula

Fissured rock/foundation or rock/debris pile present:

☒ No

☐ Yes (if yes, photograph and complete the following)

UTMs: _____ Likelihood to extend below frost line: _____

% canopy cover: _____ % slope: _____ Distance to open canopy (m): _____

Description of fissure or stone pile (composition/material, dimensions, etc): _____

Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc): _____

Seeps and Springs

(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No

☐ Yes (if yes, photograph and complete the following)

UTMs: _____ Description (indicator species, etc): _____

NHA Site Investigation - Significant Wildlife Habitat Form

AECOM

Colonial Nesting Bird Breeding Habitat (Bank and Cliff Swallows)

(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, pits, steep slope or rock face present:

☒ No

☐ Yes (if yes, photograph and complete the following)

UTMs: _____

Location (e.g. aggregate pit, bridge): _____

Evidence of use by bank or cliff swallows (provide number of nests): _____

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas

(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present:

☒ No

☐ Yes (if yes, photograph and complete the following)

UTMs: _____

Rocky island or peninsula present: _____

Mudflat present: _____

Evidence of disturbance (e.g. cattle grazing): _____

Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover): _____

Raptor Winter Feeding and Roosting, Open Country or Shrub/Early Successional Bird Breeding Habitat

CUT1, CUS1, >30ha, CUM1 >30ha, FOC, FOD, FOM with a CUM, CUT, CUS, CUW > 20ha, or a CUM, CUS, CUT, CUW > 15ha

Large meadow, old field or generally open habitat (e.g. CUM, CUS, CUT, CUS, CUW) present:

Large open habitat present: ☒ No

☐ Yes (if yes, photograph and complete the following)

UTMs: _____

Evidence of disturbance (e.g. cattle grazing): _____

Description of habitat (abundance of food plants for rodents, abundance of perches, height of vegetation): _____

Old-growth or Mature Forests, Interior Forest Breeding Birds

(FOD, FOC, FOM, SWC, SWM, SWD. Mature forest (>60 years) present)

Mature forest present: ☒ No

☐ Yes (if yes, photograph and complete the following)

UTMs: _____

Age of oldest trees: _____

Evidence of disturbance (e.g. selective cutting): _____

Description of habitat (structural complexity, abundance of snags and/or downed woody debris, etc): _____

Photo #	Location or Subject	Photo #	Location or Subject

Time Started: 10:35 a.m.
Time Finished: 11:30 a.m.

Observed Species List

[illegible]

Note:	Evidence Codes (EV)	<u>Breeding Bird (Possible)</u>	SH=Suitable Habitat, SM=Singing Male;

Breeding Bird (Probable)
T=Territory, D=Display, P=Pair, N=Nest Building, V= Visiting Nest; A=Anxiety Behavior.

Breeding Bird (Confirmed)

DD=Distraction, NU=Used Nest, FY=Fledged Young, NE=Eggs, NY=Young, FS=Foos/Faecal sack, AE=Nest Entry

Other Wildlife Evidence: OB=Observed, VO=Vocalization, CA=Carcass, DP=Distinctive Parts, HO=House/Den, FY=Eggs/young, TK=Tracks, FE=Feeding evidence, SC=Scat, SI=Other

PLANTS	ELC	Species	Habitat Description	Habitat Present (Y/N; UTM; description of habitat if present)
FOD7		American Gromwell (<i>Lithospermum latifolium</i>) - S3 <i>Bloom Time</i> - Spring	Shaded river banks, wooded floodplains. River floodplains, woods and edges of woods.	Y (N) UTM.
ALO, TPO		Muehlenberg's astomum moss (<i>Astomum muehlenbergianum</i>) - S2 <i>Bloom Time</i> - Spring	Thin soil over level outcrop ledges and on soil under grasses in open prairie	Y (N) UTM.
FOM1, FOM2, CUP3		Autumn Coral-root (<i>Corallorhiza odontorhiza</i>) - S2 <i>Bloom Time</i> - summer to fall	Oak-pine woods or occasionally in open, red pine or white pine plantations. Dry, sandy woods.	Y (N) UTM.
FOC, FOM, FOD		Burning Bush (<i>Euronymus alatropurpureus</i>) - S3 <i>Bloom Time</i> - April - June	Species occurs in dry to moist deciduous thickets and woods	Y (N) UTM. N/O
SWC1, SWC3, SWC4, SWM1, SWM2, SWM4, SWM5, SWM6		Chinese Hemlock Parsley (<i>Conioselinum chinense</i>) - S2 <i>Bloom Time</i> - summer to fall	Swampy places with deciduous trees, white cedars, tamarack; springy river banks, wet borders of streams and rivers. Also found among calcareous seepage slopes.	Y (N) UTM.
SWC, SWM, SWD, SWT, MAM, MAS		Crowned Beggarticks (<i>Bidens trichosperma</i>) - S2 <i>Bloom Time</i> - late summer	Found in openings in swamps, marshes, along shores & wet fields within the Carolinian zone and southeastern Georgian bay. Bogs, fens, tamarack swamps.	Y (N) UTM.
ALT1, FOD7		Eastern Green-violet (<i>Hybanthus concolor</i>) - S2 <i>Bloom Time</i> - mid March to August	Occurs in rich, wet-mesic floodplain forests as well as mesic forests over limestone. Includes floodplains and river banks.	Y (N) UTM.
TPS, TPW, FOM1, FOM2		Fogg's Goosefoot (<i>Chenopodium foggii</i>) - S2	Species occurs in sandy areas on limestone under oak or pine-oak forests	Y (N) UTM.
TP02, TPS2, TPW2		Giant Ironweed (<i>Vernonia gigantea</i>) - S1? <i>Bloom Time</i> -	Found in mesic prairies, thickets, moist woods, roadsides and grassy meadows	Y (N) UTM.

Species of Conservation Concern Habitat and Incidental Wildlife – Goshen



ELC	Species	Habitat Description	Habitat Present (Y/N) UTM	description of habitat if present
CUM1, MAM, FOD6, FOD7, FOD9	June – August Green Dragon (<i>Arisaema dracontium</i>) - SC/IS3 <u>Bloom Time – May and June</u>	Species found in damp deciduous forest and along river streams. Particularly Maple forest and forest dominated by Red Ash and White Elm.	Y (N) UTM	
TP01, TPS1, TPW1, FOM1, FOM2, FOD1, FOD2, FOD3	<u>Hairy Bedstraw</u> (<i>Galium pilosum</i>) - S3 <u>Bloom Time – June-August</u>	Occurs in dry, sandy woods and thickets, occasionally in dry sandy fields	Y (N) UTM	
FE01, FES1, FET1, SWC, SWM, SWD, SWT, TPO, TPS, TPW	<u>Hairy Valerian</u> (<i>Valeriana edulis</i>) - S1 <u>Bloom Time – June to August</u>	Inhabits swampy river flats and meadows, wet prairies, and wooded, rocky riverbanks and fens.	Y (N) UTM	
FOD6, FOD7, SWM, SWD	<u>Hairy Wood Mint</u> (<i>Blephilia hirsuta</i>) - S1 <u>Bloom Time – Summer</u>	Woodlands, often rocky, especially rivers. Rich woods, swamp forests, floodplains.	Y (N) UTM	
FOD6, FOD7, FOD8, FOD9	<u>Harbinger-of-spring</u> (<i>Engelmannia bulbosa</i>) - S3 <u>Bloom Time – early to late April</u>	Occurs in rich, <u>moist deciduous woods</u> , especially on floodplains.	Y (N) UTM	N/A
SAS1, SAM1, SAF1	<u>Hill's Pond Weed</u> (<i>Potamogeton hillii</i>) - SC/IS2 <u>Bloom Time – summer</u>	Aquatic plant found in highly alkaline waters of ditches, ponds, beaver ponds, and slow-moving cold waters	Y (N) UTM	
FOM6, FOM7, FOM8	<u>Large Round-leaved Orchid</u> (<i>Platanthera macrophylla</i>) - S2 <u>Bloom Time – June to August</u>	Species inhabits moist mixed woods. Found in fairly mature, upland sugar maple-beech-eastern hemlock woodlands.	Y (N) UTM	
MAM2, MAM3, MAS2, MAS3, SWD	<u>Lizard's Tail</u> (<i>Saururus cernuus</i>) - S3 <u>Bloom Time – June – September</u>	Species inhabits shores and streambanks along shallow water. As well as swamps, floodplains, shallow water and mudflats at the borders of streams and ponds.	Y (N) UTM	
FOD6, FOD7, FOD9	<u>Pawpaw</u> (<i>Asimina triloba</i>) - S3 <u>Bloom Time – March-May</u>	Occurs in moist deciduous woods and stream banks.	Y (N) UTM	
FOM8, FOD6, FOD7, FOD9, CUM1	<u>Pilose Evening Primrose</u> (<i>Oenothera pilosella</i>) - S2 <u>Bloom Time – Late Spring – Early Summer</u>	Moist edges of woods and open, disturbed ground.	Y (N) UTM	
TPW1, FOM1, FOM2, FOD1, FOD2, FOD3	<u>Prostrate Tick-trefoil</u> (<i>Desmodium rotundifolium</i>) - S2 <u>Bloom Time – July-September</u>	Dry, sandy or rocky woods	Y (N) UTM	
FOD7, SWD	<u>Pumpkin Ash</u> (<i>Fraxinus profunda</i>) - S2? <u>Bloom Time – March – June</u>	Swamps and floodplains	Y (N) UTM	
CUW1, ALO, FET1, SWC	<u>Ram's-head Lady's-slipper</u> (<i>Cypripedium arietinum</i>) - S3 <u>Bloom Time – mid May to mid June</u>	Found in cedar woodlands, limestone plains and wooded fens, moist coniferous swamps, dry-sandy woods, and limestone barren.	Y (N) UTM	
FOD1, FOD2, FOD3, FOD4, FOD5, FOC1, FOM1, FOM5	<u>Rattlesnake Hawkweed</u> (<i>Hieracium venosum</i>) - S2 <u>Bloom Time – April – September</u>	Species inhabits open, dry sandy woods. Jack pine, oak and aspen woodlands.	Y (N) UTM	
FOD6, FOD7, FOD9	<u>Round-leaved Groundsel</u> (<i>Packera obovata</i>) - S3 <u>Bloom Time – May – June</u>	Found in moist woods	Y (N) UTM	
CUM1, CUT1, CUS1	<u>Round-leaved hawthorn</u> (<i>Crataegus lumaria</i>) - S3?	Species occurs in old fields, poorly managed pastures, fencelines and roadsides	Y (N) UTM	
FOD6, FOD7, FOD9, FOD8, SWT2, SWT3	<u>Scarlet Beebalm</u> (<i>Monarda didyma</i>) - S3 <u>Bloom Time – May to October</u>	Found in moist, rich woods, thickets swamps, banks and floodplains.	Y (N) UTM	N/A
ALO, ALS, ALT, TPO, TPS, TPW	<u>Slender Blazing Star</u> (<i>Liatis cylindracea</i>) - S3	Species occurs in limestone and dolostone pavement, prairies, open woods, alvars and moist sandy meadows.	Y (N) UTM	
SBO, SBS, SBT, TPO1, TPS1, TPW1, FOD1, FOD2	<u>Slender Knotweed</u> (<i>Polygonum tenue</i>) - S2	Found in dry, sandy, open areas in deciduous (often oak woods), prairie meadows, at edges of sand pits	Y (N) UTM	
SDT1, FOD5, FOD9	<u>Slim-flowered Muhly</u> (<i>Muhlenbergia tenuiflora</i>) - S2	Found in rich deciduous forest, often on rocky or sandy soils, wooded dunes, hillsides, and riverbanks whether in oak or beech-maple woods	Y (N) UTM	
BL01, BLS1, BLT1, TP02, TPS2, TPW2, MAM2, FOD7	<u>Stiff Gentian</u> (<i>Gentiana quinquefolia</i>) - S2 <u>Bloom Time – late summer to mid fall</u>	Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, bluffs and wooded hillsides.	Y (N) UTM	
TPS1, TPW1, CUW1, RBO, SBO	<u>Sundial Lupine</u> (<i>Lupinus perennis</i>) - S3 <u>Bloom Time – mid-March to mid-June</u>	Inhabits dry, sandy oak savannahs, prairies, open barrens or clearings in woodlands of oak, jack pine, and/or aspen	Y (N) UTM	

Species of Conservation Concern Habitat and Incidental Wildlife – Goshen

ELC	Species	Habitat Description	Habitat Present (Y/N; UTM: description of habitat if present)
TP01, TPS1, TPW1, CUM1	Tall Blazing Star (<i>Ilariis aspera</i>) - S3/SC	Occurs in open, sandy woods, dry roadsides and sandy prairies	Y (N) UTM:
FEO, FES, FET, MAM2, MAM3	Tuberous Indian Plantain (<i>Arnoglossum plantagineum</i>) - S3 Bloom Time – mid-March to mid-June	Occurs mainly in flat, sandy areas of the Bruce Peninsula. Fens, wet meadows, and calcareous river flats.	Y (N) UTM:
FOC1, FOC2, FOC3, FOC4	Woodland Pinedrops (<i>Pterospora andromedea</i>) - S2 Bloom Time – summer	Found in conifer woods, under pines, but also hemlock, spruce, fir, and white cedar. In dry or rocky soil, often with common juniper and sometimes aspen or birch.	Y (N) UTM:
CUM1, CUT1, CUW1, RBO1, SBO1	Yellow Ladies'-tresses (<i>Spiranthes ochroleuca</i>) - S2 Bloom Time – August to November	Dry, open sites, usually on acidic sandy soil, dry to mesic open woodland, thickets, meadows, barrens, ledges, outcrops, banks and roadsides, old fields.	Y (N) UTM:
BIRDS			
-	Bald Eagle (<i>Haliaeetus leucocephalus</i>) - SC	Assessed as SWH. Record species if found.	not required.
CUW, SDO, RBO, TPS	Common Nighthawk (<i>Chordeiles minor</i>) - SC	Hunts insects over a wide variety of habitats, in particular open or semi-open areas. Nests on ground in a wide range of open, sparse or vegetation-free habitats.	Y (N) UTM:
FOD, FOM	Louisiana Waterthrush (<i>Seiurus motacilla</i>) - SC	Inhabits mature forests along steeply sloped ravines adjacent to running water. Trees, bushes, exposed roots, cliffs, banks and mossy logs are favoured nesting spots. Riparian woodlands are preferred stopover sites during migration	Y (N) UTM
FOD, CUW, CUT	Red-headed Woodpecker (<i>Melanerpes erythrocephalus</i>) - SC	Species inhabits open woodland/ edges (oak savannahs and riparian forest), open, deciduous forest with little understory; fields or pasture lands with scattered large trees; wooded swamps; orchards, small woodlots or forest edges; groves of dead or dying trees; requires cavity trees with at least 40 cm dbh; requires about 4 ha for a territory.	Y (N) UTM
-	Short Eared Owl (<i>Asio flammeus</i>) - SC	Assessed as SWH. Record species if found.	not required.
CUT1	Yellow-breasted Chat (<i>Icteria virens</i>) - SC	Inhabits thickets, tall tangles of shrubbery beside streams, ponds; overgrown bushy clearings with deciduous thickets; nests above ground in bush, vines	Y (N) UTM:
REPTILES			
-	Eastern Ribbonsnake (<i>Thamnophis sauritus</i>) - SC	Assessed as SWH. Record species if found.	not required.
-	Milksnake (<i>Lampropeltis triangulum</i>) -SC	Assessed as SWH. Record species if found.	not required.
-	Snapping Turtle (<i>Chelydra serpentina</i>) - SC	Assessed as SWH. Record species if found.	not required.
INSECTS			
OAO, SA, SWM, SWD	Azure Bluet (<i>Enallagma aspersum</i>) -S3	Species inhabits fishless ponds, lakes and boggy swamps	Y (N) UTM:
TPS, TPW	Sleepy Duskywing (<i>Erynnis brize</i>) - S1	Occurs in oak/oak-pine scrub, chaparral, barrens, well-drained sandy or shaly soils. Species regularly seen at flowers in oak woods, on the ground, and at mud puddles	Y (N) UTM:
CUM1, CUT1, CUW1	Monarch Butterfly (<i>Danaus plexippus</i>) - SC	Their larvae only feed on milkweeds (<i>Asclepius</i> spp.). Habitat includes abandoned farmland, along roadsides, open spaces where these plants grow	Y (N) UTM:
TPS, CUW	Mottled Duskywing (<i>Erynnis martialis</i>) -S2	Usually seen nectaring or on wet sandy roads. Larvae feeds on New Jersey Tea and adults only likely near where this plant is present	Y (N) UTM
SWT, SWD, SWM, FOM, FOD4-3, TPW, TPS, CUM1	Tawny Emperor (<i>Asterocampa clyten</i>) - S3	Species inhabits densely wooded riparian areas, dry woods, open woods, fencerows and parks. Usually occurs near Hackberry, the larval foodplant	Y (N) UTM
FOD5	West Virginia White (<i>Pieris virginianensis</i>) - SC	This species is restricted to rich, moist, deciduous woods, where its foodplant toothwort occur	Y (N) UTM:

Goshen Feature: 364 GSH1358

(Properties that contain Features within 125m from Collection lines and 171.5m from Turbines)

- Roads
- Access/Collection Line
- Collection Buffer (125m)
- Collection Buffer (171.5m)
- Turbine Buffer/Feature Interest
- Property (Yellow)
- (Quadrant View) Energy Centre

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September 1, 2011

0 25 50 100 Meters



System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD	☐ River
☐ <u>Shrub</u>	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☒ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
<u>History</u>		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
<u>Cover</u>		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Tree		☐ Bluff		☒ Forest
				☐ Plantation

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (as Much Greater Than > Greater Than = About Equal To)
1	1	4	ACE SAC >> BR PLANTER = FRAGRANT
2	3	2	FRAGRANT > BR PLANTER
3	4	3	FRAGRANT = FRAGRANT > EUCALYPTUS
4	6	4	Soil Flex > CORPUS > BR PLANTER = 1-1-0 = M. L. C.

Stand Composition:	Size Class Analysis:	χ^2	A	Q	25-50	$\bar{R}$
	Surviving Stems:	N	N	N	25-50	N
BA:	Castfall Logs:	O	O	O	25-50	N

Can Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth
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Models:	Shrub Deciduous Forest	Code:	F005
Vegetation Type:		Code:	F005-1
Inclusion:		Code:	
Comment:		Code:	

evidence of logging - lots of stumps

14 of 100 pages x6

(ERIC community descriptions) - James (042004)

Species	Tally 1	Tally 2	Total	Rel. Avg.
ALESACK	-THH IIII			
FRAMMER				
FREEMAN				
Total	3			100
Benthic Infa (BA)	30			
Open				

Site Metrics		Pit/Auger #								Summary	
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Zone	17				Moisture Regime
						Easting	450943				
	Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Northing	4803757			Drainage
							Position	TOP NW slope			
	Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Aspect	South			Effective Texture (indicate below)
							Percent	40%			
	Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Slope Length	200m			% CF
	Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Gley				% CF
							Water Table				
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Carbonates				% CF	
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Bedrock				% CF	
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	1	Depth from zero	23	% CF	% CF	% CF
						Texture	Sand dsl. in				
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	2	Depth from zero		% CF	% CF	% CF
						Texture	S light in Gln				
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	3	Depth from zero		% CF	% CF	% CF
						Texture					
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	4	Depth from zero		% CF	% CF	% CF
						Texture					
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	% Surface Stone/Rock					
						Moisture Regime					
Soil Horizon Description	Depth to...	Bedrock	Moisties	Slope	UTM	Drainage					

76 cm deep

Community
Description and
Classification

Site: 324-(SH)358	Polygon: V2
Surveyor(s): JCS	Date: Sept 8, 2011
UTMZ: 19	UTMZ: 48QCS
	UTMN: 48QCS
	Time start: 1:44
	Time finish: 3:30

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☒ Mineral Soil	☒ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD	☐ River
Site	☐ Aquatic	☐ Terrace	☒ Graminoid	☐ Stream
	☐ Acidic Bedrk	☐ Valley Slope	☐ Forb	☒ Marsh
☐ Open Water	☐ Basic Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Shallow Water	☐ Carb. Bedrk	☐ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Surficial Dep.		☐ Cliff	☐ Deciduous	☐ Bog
☐ Bedrock		☐ Talus	☐ Coniferous	☐ Barren
History		☐ Crevice/Cave	☐ Mixed	☐ Meadow
	☒ Natural	☐ Avar		☐ Prairie
☐ Cultural		☐ Rockland		☐ Thicket
Cover		☐ Beach / Bar		☐ Savannah
	☒ Open	☐ Sand Dune		☐ Woodland
	☐ Shrub	☐ Bluff		☐ Forest
☐ Tree				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			
2			
3			
4			<i>Phacelia</i> >> <i>erigeron</i> > <i>matricaria</i>

HT Codes:	7 < 0.2m	8 > 0.2-0.5m	8 > 0.5-1m	4 > 1-2m	3 > 2-5m	2 > 6-25m	1 > 25m
HT Codes:	0 = none	1 0% - 10%	2 10 - 20%	3 25 - 60%	4 > 80%		

Stand Composition:	Size Class Analysis:							
			<10	10-24	25-50	>50		
			<10	10-24	25-50	>50		
BA:			<10	10-24	25-50	>50		
						</		

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☐ Mature	☐ Old Growth
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Ecosite:		Code:	WTHM2
Vegetation Type:	Red Arany grass Mixed Mallee	Code:	MANA-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Yellow's watercourse identified in map

Notes

Tree Tally by Species

[illegible]

Solids	Ontario and ELC Solids Description
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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89	89
90	90
91	91
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95	95
96	96
97	97
98	98
99	99
100	100

Site Metrics		Pit/Auger #								Summary	
	UTM	Zone									Moisture Regime
		Easting									
		Northing									
	Slope	Position									Drainage
		Aspect									
Percent											
		Slope Length									
Depth to ...	Mottles										Effective Texture (Indicate below)
	Gley										
	Water Table										
	Carbonates										
	Bedrock										
Soil Horizon Description	1	Depth from zero			% CF		% CF		% CF		% CF
		Texture									
	2	Depth from zero			% CF		% CF		% CF		% CF
		Texture									
	3	Depth from zero			% CF		% CF		% CF		% CF
		Texture									
	4	Depth from zero			% CF		% CF		% CF		% CF
		Texture									
	% Surface Stone/Rock										
	Moisture Regime										
	Drainage										

ELC WILDLIFE	SITE: 364-GSH1358	
	POLYGON: V1	
	DATE: Sept 8	
	SURVEYORS: J. C. B.	
	START TIME:	END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

☐ O	VERNAL POOLS	☐ N	SNAGS
☒ R	HIBERNACULA	☐ A	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
	WFR x 6	OB							
	Wild Turkey	OB							

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT

SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY

D = DISPLAY

P = PAIR

A = ANXIETY BEHAVIOUR

N = NEST BUILDING

V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION

NU = USED NEST

FY = FLEDGED YOUNG

NE = EGGS

NY = YOUNG

FS = FOOD/FECAL SACK

AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED

VO = VOCALIZATION

CA = CARCASS

DP = DISTINCTIVE PARTS

HO = HOUSE/DEN

FY = EGGS/YOUNG

TK = TRACKS

FE = FEEDING EVIDENCE

SC = SCAT

SI = OTHER SIGNS (specify)

Job Number:

Job Number:

6

SITE LOCATIONS

1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
CONIFERS						TREES and SHRUBS						GRAMINOIDS					
<i>Abies balsamea</i>						+ <i>Rosa multiflora</i>						<i>Agrostis gigantea</i>					
<i>Juniperus communis</i>						<i>Rosa</i>						<i>Agrostis stolonifera</i>					
<i>Juniperus virginiana</i>						<i>Rubus allegheniensis</i>						<i>Agropyron repens</i>					
<i>Larix laricina</i>						<i>Rubus idaeus</i>			X			<i>Alopecurus</i>					
<i>Picea abies</i>						<i>Rubus occidentalis</i>			X			<i>Bromus inermis</i>					
<i>Picea glauca</i>						<i>Rubus odoratus</i>						<i>Calamagrostis canadensis</i>					
<i>Pinus resinosa</i>						<i>Rubus pubescens</i>						<i>Carex acutata</i>					
<i>Pinus strobus</i>						<i>Salix alba</i>						<i>Carex aurea</i>					
<i>Pinus sylvestris</i>						<i>Salix amygdaloides</i>						<i>Carex bebbii</i>					
<i>Thuja occidentalis</i>						<i>Salix bebbiana</i>						<i>Carex blanda</i>					
<i>Thuja canadensis</i>						+ <i>Salix discolor</i>						<i>Carex gracillima</i>					
						<i>Salix eriocephala</i>						<i>Carex granularis</i>					
						<i>Salix exigua</i>						<i>Carex hystericina</i>					
						<i>Salix lucida</i>						<i>Carex pennsylvanica</i>		X			
						<i>Salix petiolaris</i>						<i>Carex radiata</i>					
TREES and SHRUBS						+ <i>Salix purpurea</i>						<i>Carex retrosa</i>					
<i>Acer negundo</i>						<i>Salix x rubens</i>						<i>Carex stipata</i>					
<i>Acer rubrum</i>						+ <i>Salix</i>						<i>Carex stricta</i>					
<i>Acer saccharinum</i>						<i>Sambucus canadensis</i>			X			<i>Carex vulpinoidea</i>					
<i>Acer saccharum</i>		X				<i>Sambucus racemosa</i>						<i>Carex</i>					
<i>Acer spicatum</i>						<i>Sorbus aucuparia</i>						<i>Carex</i>					
<i>Alnus rugosa</i>						<i>Spiraea alba</i>						<i>Carex</i>					
<i>Amelanchier</i>						<i>Syringa vulgaris</i>						<i>Carex</i>					
<i>Berberis thunbergii</i>						+ <i>Tilia americana</i>			X			<i>Carex</i>					
<i>Betula alleghaniensis</i>						<i>Ulmus americana</i>			X			<i>Carex</i>					
<i>Betula papyrifera</i>						<i>Ulmus</i>						<i>Carex</i>					
<i>Carpinus caroliniana</i>		X				<i>Vaccinium</i>						<i>Carex</i>					
<i>Carya cordiformis</i>		X				<i>Viburnum lentago</i>						<i>Carex</i>					
<i>Celastrus scandens</i>						<i>Viburnum opulus</i>						<i>Cyperus</i>					
<i>Cornus alternifolia</i>						<i>Viburnum</i>						<i>Cyperus</i>					
<i>Cornus amomum</i>						<i>Vitis riparia</i>						<i>Dactylis glomerata</i>					
<i>Cornus rugosa</i>												<i>Danthonia spicata</i>					
<i>Cornus stolonifera</i>												<i>Echinochloa crus-galli</i>					
<i>Corylus cornuta</i>												<i>Eleocharis erythropoda</i>					
<i>Crataegus monogyna</i>												<i>Eleocharis</i>					
<i>Crataegus punctata</i>												<i>Elymus virginicus</i>					
<i>Crataegus sp.</i>												<i>Elymus</i>					
<i>Crataegus</i>												<i>Festuca arundinacea</i>					
<i>Diervilla lonicera</i>												<i>Glyceria striata</i>		X	X		
<i>Fagus grandifolia</i>		X										<i>Glyceria</i>					
<i>Fraxinus americana</i>		X										<i>Juncus dudleyi</i>					
<i>Fraxinus nigra</i>						FERNS						<i>Juncus effusus</i>					
<i>Fraxinus pennsylvanica</i>						<i>Adiantum pedatum</i>						<i>Juncus tenuis</i>					
<i>Ilex verticillata</i>						<i>Athyrium filix-femina</i>						<i>Juncus</i>					
<i>Juglans cinerea</i>						<i>Botrychium multifidum</i>						<i>Juncus</i>					
<i>Juglans nigra</i>						<i>Botrychium virginianum</i>						<i>Leersia oryzoides</i>					
<i>Lonicera morrowi</i>						<i>Cystopteris bulbifera</i>						<i>Malinkobergia</i>					
<i>Lonicera tatarica</i>						<i>Dryopteris caroliniana</i>						<i>Oryzopsis asperifolia</i>					
<i>Lonicera</i>						<i>Dryopteris cristata</i>						<i>Panicum</i>					
<i>Malus pennila</i>						<i>Dryopteris marginalis</i>						<i>Panicum</i>					
<i>Ostrya virginiana</i>		X				<i>Dryopteris</i>						<i>Phalaris arundinacea</i>			X		
<i>Parthenocissus litoralis</i>						<i>Equisetum arvense</i>						<i>Phleum pratense</i>					
<i>Populus balsamifera</i>						<i>Equisetum hyemale</i>						<i>Pitragmites australis</i>					
<i>Populus grandidentata</i>						<i>Equisetum variegatum</i>						<i>Poa compressa</i>					
<i>Populus tremuloides</i>						<i>Equisetum</i>						<i>Poa pratensis</i>					
<i>Populus</i>						<i>Gymnocarpium dryopteris</i>						<i>Poa</i>					
<i>Prunus pennsylvanica</i>						<i>Lycopodium digitatum</i>						<i>Scirpus atrovirens</i>					
<i>Prunus serotina</i>		X				<i>Lycopodium obscurum</i>						<i>Scirpus cyperinus</i>					
<i>Prunus virginiana</i>						<i>Lycopodium</i>						<i>Scirpus validus</i>					
<i>Prunus</i>						<i>Lycopodium</i>						<i>Scirpus</i>					
<i>Quercus macrocarpa</i>						<i>Mattesia struthiopteris</i>						<i>Scirpus</i>					
<i>Quercus rubra</i>						<i>Oenoclea sensibilis</i>						<i>Setaria</i>					
<i>Quercus</i>						<i>Osmunda cinnamomea</i>						<i>Spartanum</i>					
<i>Rhamnus cathartica</i>						<i>Osmunda regalis</i>						<i>Typha angustifolia</i>					
<i>Rhus radicans</i>		X				<i>Polystichum acrostichoides</i>						<i>Typha latifolia</i>					
<i>Rhus typhina</i>						<i>Psidium aquilinum</i>						<i>Typha Xglauca</i>					
<i>Ribes americana</i>						<i>Thelypteris palustris</i>											
<i>Ribes cynosbati</i>																	
<i>Ribes x rubrum</i>																	
<i>Robinia pseudo-acacia</i>																	

Goshen Feature: 1369 GSH1038

(Properties that contain Features within 125m from Collection lines and 171.5m from Turbines)

- Roads
- Access/Collection Line
- Collection Buffer (125m)
- Turbine Buffer (171.5m)
- Collection/Feature Intersect
- Turbine Buffer/Feature Intersect
- Property Fabric
- Bluewater Wind Energy Centre



Number 1, 2011



ELC Community Description and Classification	Site: 366_GSH1038		Polygon: 	
	Surveyor(s): SAM		Date: sept. 23/11	Time start: 1300h
	UTMZ: 17T		UTMZ: 448549	UTMN: 4803926
				Time finish: 1330h

Polygon Description

System	Substrate	Topographic Features	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Open Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Shallow Water		☒ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Surficial Dep.		☐ Cliff	☒ Deciduous	☐ Bog
☐ Bedrock		☐ Talus	☐ Coniferous	☐ Barren
		☐ Crevice/Cave	☐ Mixed	☐ Meadow
		☐ Alvar		☐ Prairie
		☐ Rockland		☐ Thicket
		☐ Beach / Bar		☐ Savannah
		☐ Sand Dune		☒ Woodland
		☐ Bluff		☐ Forest
				☐ Plantation
History				
☐ Natural				
☒ Cultural				
Cover				
☐ Open				
☐ Shrub				
☐ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (> = Much Greater Than, > Greater Than, = About Equal To)
1	2-3	2	White Elm > Basswood > White Ash
2	3-2	3	Sour Cherry >> White Ash > White Elm
3	4	3	New England Aster > Frost Aster > Garlic Mustard
4	7-6	3	Wild Strawberry > Poison Ivy

HT Codes: 7 <0.2m 8 0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Oter Class Analysis:					
	Standing Snags:					
BA'	Deadfall / Logs:					
>50		<10		10-24		25-50
>50		<10		10-24		25-50
>50		<10		10-24		25-50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth
	☐	☐	☒	☐	☐

Ecocode:	Mineral Cultural Woodland Ecosite	Code:	Cw1
Vegetation Type:	Sour Cherry-white Elm Mineral Cultural woodland Type	Code:	Cw1c
Inclusion:	✓	Code:	—
Comments:		Code:	

Community Profile Diagram/Comments

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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Notes:

Tree Tally by Species

[illegible]

Soils Ontario and ELC Soils Description

Pit/Auger #					Summary		
Site Metrics	UTM	Zone				Moisture Regime	
		Easting					
		Northing					
	Slope	Position					
		Aspect					
Slope Length							
Depth to ...	Mottles					Drainage	
	Gley						
	Water Table						
	Carbonates						
	Bedrock						
	1	Depth from zero	% CF	% CF	% CF		Effective Texture (Indicate below)
		Texture					
	2	Depth from zero	% CF	% CF	% CF		
Texture							
3	Depth from zero	% CF	% CF	% CF			
	Texture						
4	Depth from zero	% CF	% CF	% CF			
	Texture						
	% Surface Stone/Rock						
	Moisture Regime						
	Drainage						
Soil Horizon Description						% CF	

Location: 366 GSH 1038
Observer: SAM

VASCULAR PLANT CHECKSHEET

Date: Sept 23/11
Job Number:

DICOT HERBS												MONOCOT HERBS					
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
<i>Adiantum</i>						<i>Erigeron annuus</i>						<i>Plantago lanceolata</i>					<i>Alisma plantago-aquatica</i>
<i>Asa pectypoda</i>						<i>Erigeron philadelphicus</i>						<i>Plantago major</i>					<i>Allium tricoccum</i>
<i>Asa rubra</i>						<i>Erigeron strigosus</i>						<i>Plantago rugelii</i>					<i>Allium</i>
<i>Agallium</i>						<i>Erysimum chieranthoides</i>						<i>Podophyllum peltatum</i>					<i>Arisaema triphyllum</i>
<i>Agrostis grypsopala</i>						<i>Eupatorium maculatum</i>						<i>Polygonum</i>					<i>Asparagus officinalis</i>
<i>Allaria petiolaris</i>						<i>Eupatorium perfoliatum</i>						<i>Polygonum</i>					<i>Cela palustris</i>
<i>Aquilegia canadensis</i>						<i>Eupatorium rugosum</i>						<i>Polygonum</i>					<i>Clinaria borealis</i>
<i>Aster multiflorus</i>						<i>Euphorbia</i>						<i>Polygonum lapathifolium</i>					<i>Conoclinium majus</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Cypripedium calceolus</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Echinacea canadensis</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Equisetum telmateia</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Erythronium americanum</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Hemerocallis fulva</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Iris versicolor</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Lemna minor</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Lemna trisulca</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Lilium</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Mithridatum canadense</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Mithridatum tomentosum</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Mithridatum straboii</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Phlox pilularis</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Parosela cordata</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Polygonatum pubescens</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Potamogeton crispus</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Potamogeton nodosus</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Potamogeton</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Potamogeton</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Sagittaria latifolia</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Stachys montana</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Smilax herbacea</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Spiranthes cernua</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Spirodela polytricha</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Stratopus roseus</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Trifolium spatum</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Trifolium pratense</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Trifolium repens</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Trifolium fragrans</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Urtica dioica</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Urtica vulgaris</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Verbascum thapsus</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Verbena hastata</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Verbena urticifolia</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Veronica</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Veronica officinalis</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Viola canina</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Viola lasperma</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Viola</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Viola</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Viola pubescens</i>
<i>Aster multiflorus</i>						<i>Galium aparine</i>						<i>Polygonum persicaria</i>					<i>Viola sororia</i>

SITE LOCATIONS

1: Polygon 1
2:
3:
4:
5:
6:

CONIFERS	1	2	3	4	5	6	TREES and SHRUBS	1	2	3	4	5	6	GRAMINOIDS	1	2	3	4	5	6
Abies balsamea							+ Rosa multiflora							Agrostis gigantea						
Juniperus communis							Rosa							Agrostis stolonifera						
Juniperus virginiana							Rubus allegheniensis							Agropyron repens						
Larix laricina							Rubus idaeus							Alopecurus						
Picea abies							Rubus occidentalis		X					Bromus inermis						
Picea glauca							Rubus odoratus							Calamagrostis canadensis						
Pinus resinosa							Rubus pubescens							Carex arctata						
Pinus strobus							Salix alba							Carex aurea						
Pinus sylvestris							Salix amygdaloides							Carex bebbii						
Thuja occidentalis							Salix bebbiana							Carex blanda						
Tsuga canadensis							+ Salix discolor							Carex gracillima						
							Salix eriocephala							Carex granularis						
							Salix exigua							Carex hystericina						
							Salix lucida							Carex pennsylvanica						
							Salix petiolaris							Carex radiata						
TREES and SHRUBS	-	-	-	-	-	-	+ Salix purpurea							Carex retrosa						
Acer negundo							Salix x rubens							Carex stipata						
Acer rubrum							+ Salix							Carex stricta						
Acer saccharinum							Sambucus canadensis							Carex vulpinoidea						
Acer saccharum	X						Sambucus racemosa							Carex						
Acer spicatum							Sorbus aucuparia							Carex						
Alnus rugosa							Spiraea alba							Carex						
Ameiandier							Syringa vulgaris							Carex						
Berberis thunbergii							+ Tilia americana		X					Carex						
Betula alleghaniensis							Ulmus americana		X					Carex						
Betula papyrifera							Ulmus							Carex						
Carpinus caroliniana							Vaccinium							Carex						
Carya cordiformis							Viburnum lentago							Carex						
Celastrus scandens							Viburnum opulus							Cyperus						
Cornus alternifolia							Viburnum							Cyperus						
Cornus amomum							Vitis riparia							Dactylis glomerata						
Cornus rugosa														Danthonia spicata						
Cornus stolonifera														Echinochloa crus-galli						
Corylus cornuta														Eleocharis erythropoda						
Crataegus monogyna														Eleocharis						
Crataegus punctata	X													Elymus virginicus						
Crataegus sp.														Elymus						
Crataegus														Festuca arundinacea						
Diervilla lonicera														Glyceria striata						
Fagus grandifolia														Glyceria						
Fraxinus americana	X													Juncus dudleyi						
Fraxinus nigra							FERNS							Juncus effusus						
Fraxinus pennsylvanica							Adiantum petatum							Juncus tenuis						
Ilex verticillata							Adiantum filix-femina							Juncus						
Juglans cinerea							Botrychium americanum							Juncus						
Juglans nigra							Botrychium virginianum							Lecernia oryzoides						
Lonicera morrowi							Cystopteris bulbifera							Muhlenbergia						
Lonicera utahensis							Dryopteris caroliniana							Oryzopsis asperifolia						
Lonicera							Dryopteris cristata							Panicum						
Malus pensilva	X						Dryopteris marginalis							Panicum						
Ostrya virginiana							Elyopteris							Phalaris arundinacea					X	
Parthenocissus inserta		X					Equisetum							Phleum pratense					X	
Populus balsamifera							Equisetum hyemale							Plataginis australis						
Populus grandidentata							Equisetum variegatum							Poa compressa						X
Populus tremuloides							Equisetum							Poa pratensis						
Populus							Gymnocarpium dryopteris							Poa						
Prunus pennsylvanica							Lycopodium digitatum							Scirpus atrovirens						
Prunus serotina							Lycopodium obscurum							Scirpus cyperinus						
Prunus virginiana							Lycopodium							Scirpus validus						
Prunus Cerasus	X						Lycopodium							Scirpus						
Quercus macrocarpa							Mastaria struthipteris							Scirpus						
Quercus rubra							Onoclea sensibilis							Setaria						
Quercus							Onoclea cinnamomea							Spergulum						
Rhamnus cathartica							Onoclea repens							Typha angustifolia						
Rhus radicans		X					Polystichum acrostichoides							Typha latifolia						
Rhus typhina		X					Pteridium aquilinum							Typha X glauca						
Ribes americana							Thelypteris palustris													
Ribes cynosbati																				
Ribes x rubrum																				
Robinia pseudo-acacia																				

