

Species of Conservation Concern Habitat and Incidental Wildlife – Goshen

ELC	Species	Habitat Description	Habitat Presence (Y/N; UTM; UTM: description of habitat if present)
CUM1, MAM,	June - August		
FOD6, FOD7, FOD9	Green Dragon (<i>Arisaema dracontium</i>) - S3/S3 Bloom Time - May and June	Species found in damp deciduous forest and forest dominated by Red Ash and White Elm.	(Y) N UTM N/O
TPO1, TPS1, TPW1, FOM1, FOM2, FOD1, FOD2, FOD3	Hairy Bedstraw (<i>Gallium pilosum</i>) - S3 Bloom Time - June-August	Occurs in dry, sandy woods and thickets; occasionally in dry sandy fields	(Y) N UTM
FE01, FET1, FET1, SWC, SWM, SWD, SWT, TPO, TPS, TPW	Hairy Valerian (<i>Valeriana edulis</i>) - S1 Bloom Time - June to August	Inhabits swampy river flats and meadows, wet prairies, and wooded, rocky riverbanks and fens.	(Y) N UTM
FOD6, FOD7, SWM, SWD	Hairy Wood Mint (<i>Blephilia hirsuta</i>) - S1 Bloom Time - Summer	Woodlands, often rocky, especially rivers. Rich woods, swamp forests, floodplains.	(Y) N UTM N/O
FOD6, FOD7, FOD8, FOD9	Harbinger-of-spring (<i>Erigenia bulbosa</i>) - S3 Bloom Time - early to late April	Occurs in rich, moist deciduous woods, especially on floodplains.	(Y) N UTM N/O
SAS1, SAM1, SAF1	Hill's Pond Weed (<i>Potamogeton hillii</i>) - SC/S2 Bloom Time - summer	Aquatic plant found in highly alkaline waters of ditches, ponds, beaver ponds, and slow-moving cold waters.	(Y) N UTM
FOM6, FOM7, FOM8	Large Round-leaved Orchid (<i>Platanthera macrophylla</i>) - S2 Bloom Time - June to August	Species inhabits moist mixed woods. Found in fairly mature, upland sugar maple-beech-eastern hemlock woodlands.	(Y) N UTM
MAM2, MAM3, MAS2, MAS3, SWD	Lizard's Tail (<i>Saururus cernuus</i>) - S3 Bloom Time - June - September	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	Pawpaw (<i>Asimina triloba</i>) - S3 Bloom Time - March-May	Occurs in moist deciduous woods and stream banks	(Y) N UTM N/O
FOM8, FOD6, FOD7, FOD8, CUM1	Pilose Evening Primrose (<i>Oenothera pilosella</i>) - S2 Bloom Time - Late Spring - Early Summer	Moist edges of woods and open, disturbed ground.	(Y) N UTM N/O
TPW1, FOM1, FOM2, FOD1, FOD2, FOD3	Prostate Tick-trefoil (<i>Desmodium rotundifolium</i>) - S2 Bloom Time - July-September	Dry, sandy or rocky woods	(Y) N UTM
FOD7, SWD	Pumpkin Ash (<i>Fraxinus profunda</i>) - S2? Bloom Time - March - June	Swamps and floodplains	(Y) N UTM N/O
CUW1, ALO, FET1, SWC	Ram's-head Lady's-slipper (<i>Cypripedium arietinum</i>) - S3 Bloom Time - mid May to mid June	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	Rattlesnake Hawkweed (<i>Hieracium venosum</i>) - S2 Bloom Time - April - September	Species inhabits open, dry sandy woods. Jack pine, oak, and aspen woodlands.	(Y) N UTM
FOD6, FOD7, FOD9	Round-leaved Groundsel (<i>Packera obovata</i>) - S3 Bloom Time - May - June	Found in moist woods	(Y) N UTM N/O
CUM1, CUT1, CUS1	Round-leaved hawthorn (<i>Crataegus lumarina</i>) - S3?	Species occurs in old fields, poorly managed pastures, fencelines and roadsides	(Y) N UTM
FOD6, FOD7, FOD8, FOD9, SWT2, SWT3	Scarlet Beebalm (<i>Monarda didyma</i>) - S3 Bloom Time - May to October	Found in moist, rich woods, thicket swamps, banks and floodplains.	(Y) N UTM
ALO, ALS, ALT, TPO, TPS, TPW	Slender Blazing Star (<i>Liatris cylindracea</i>) - S3	Species occurs in limestone and dolostone pavement, prairies, open woods; always and moist sandy meadows.	(Y) N UTM
SBO, SBS, SBT, TPO1, TPS1, TPW1, FOD1, FOD2	Slender Knotweed (<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	Slim-flowered Muhly (<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 N/O
BLO1, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7	Stiff Gentian (<i>Gentianella quinquefolia</i>) - S2 Bloom Time - late summer to mid fall	Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, bluffs and wooded hillsides.	(Y) N UTM N/O
TPS1, TPW1, CUW1, RBO, SBO	Sundial Lupine (<i>Lupinus perennis</i>) - S3 Bloom Time - mid-March to mid-June	Inhabits dry, sandy oak savannahs, prairies, open barrens or clearings in woodlands of oak, jack pine, and/or aspen.	(Y) N UTM

Species Conservation Concern Habitat and Incidental Wildlife – Goshen

ALOM

ELC	Species	Habitat Description	Habitat Present (Y/N) UTM: description of habitat if present
TP01, TPS1, TPW1, CUM1	Tall Blazing Star (<i>Liatris aspera</i>) - S3/SC	Occurs in open, sandy woods, dry roadsides and sandy prairies	Y <input checked="" type="radio"/> N <input type="radio"/> UTM:
FE0, 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 <input checked="" type="radio"/> N <input type="radio"/> 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 <input checked="" type="radio"/> N <input type="radio"/> 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 <input checked="" type="radio"/> N <input type="radio"/> 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 <input checked="" type="radio"/> N <input type="radio"/> UTM:
FOD, FOM	Louisiana Waterthrush (<i>Selurus metacilla</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 <input checked="" type="radio"/> N <input type="radio"/> 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 understorey, 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 <input checked="" type="radio"/> N <input type="radio"/> UTM: N/O
-	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 <input checked="" type="radio"/> N <input type="radio"/> 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 <input checked="" type="radio"/> N <input type="radio"/> UTM:
TPS, TPW	Sleepy Duskywing (<i>Erynnis brizo</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 <input checked="" type="radio"/> N <input type="radio"/> 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 <input checked="" type="radio"/> N <input type="radio"/> 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 <input checked="" type="radio"/> N <input type="radio"/> UTM:
SWT, SWD, SWM, FOM, FOD4-3, TPW, TPS, CUM1	Tawny Emperor (<i>Asterocampa clyton</i>) - S3	Species inhabits densely wooded riparian areas, dry woods, open woods, fence-rows and parks. Usually occurs near Hackberry, the larval foodplant	Y <input checked="" type="radio"/> N <input type="radio"/> UTM:
FOD5	West Virginia White (<i>Pieris virginienensis</i>) - SC	This species is restricted to rich, moist, deciduous woods, where its foodplant Toothwort occur	Y <input checked="" type="radio"/> N <input type="radio"/> UTM:

258-1659

GSH



GSH1659

17

17

Pic A22
1st 07

GSH1659

031001 20110119

X 25

ELC
Community
Description and
Classification

Site: Goshan Polygon: GE7/SMN/7
 Surveyor(s): Date: July 19, 2011 Time start: 1:17
 Start: 3:30
 UTMZ: UTMZ: UTMZ: UTMZ:

Polygon Description 25°C, feels like 38°C

System	Substrate	Topographic Feature	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic Site <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input checked="" type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock History <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Cultural Cover <input type="checkbox"/> Open <input type="checkbox"/> Shrub <input checked="" type="checkbox"/> Tree	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input checked="" type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> 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	1	4	ACESAC > CAROVAT = FRANKR
2	2	3	AVESAC > CARCARD = OSTVIRE
3	5	1	CORALTE
4	6	1	CAREX sp > VIOGA sp > MAJSTELL

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 5-25m 1 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition: Size Class Analysis: A < 10 10-24 25-50 > 50
 Standing Snags: A < 10 10-24 25-50 > 50
 Deadfall / Logs: A < 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

Ecolite:	Code: FOD
Vegetation	Code: F009-4
Inclusion:	Code:
Complex:	Code:

Community Profile Diagram/Comments

young sprouts - lots of pine next table
 Community on marsh adjacent from along stream
 stream more disturbed open canopy

Notes:

Free Tally by Species

Species	Tally 1	Tally 2	Tally 3	Total
CAROVAT				4
ACESAC				4
OSTVIRE				2
FRANKR				1
Total	15			15
Basal Area (BA)	30			30
Dead				

Soils Ontario and ELC Soils Description

Soil Order	Plt/Auger #	Zone	Easting	Northing	Position	Aspect	Percent	Slope	Slope Length	Mottles	Gley	Water Table	Carbonates	Bedrock	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	% Surface Stone/Rock	Moisture Regime	Drainage	Summary
1	44291														2cm	LMFH										Moisture Regime
2	493764																									Drainage
3																										Effective Texture (Indicate below)
4																										% CF

40cm

ELC	SITE: Goshen		
	POLYGON: GE17/SMAN17		
WILDLIFE	DATE: July 19, 2011		
	SURVEYORS: Jess + Jay		
	START TIME: 1:17 pm	END TIME: 3:30 pm	
TEMP (°C): 25°C	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

N	VERNAL POOLS	N	SNAGS
N	HIBERNACULA	A	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
#	WJFR	OK							

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)

258 - GSH1658

h

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

September 1, 2011



Goshen Feature: 258 GSH1658

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



GSH1657
NO ACCESS

GSH1635

ELC Community Ecosystem Classification

Site: **258 GSN/058** Polygon: **D**

Surveyor(s): **3741** Date: **5/9/12/11** Time start: **12:15**

UTM: **17T** UTM: **444302** UTM: **4793829** UTM: **1307**

Polygon Description: **WPA 286**

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

Stand Description

Species in Order of Decreasing Dominance (up to 4 sp)
 (> Much Greater Than; > Greater Than; = About Equal To)

Layer	HT	CVR	Notes
1	2	4	EW > AW > BP
2	3	2	AW > MH > Conf. pinn. C.
3	5	3-3	Caric hybrid, Caric hybrid > Ribes anem.
4	7-6	2	Bison W > Eup. abou > R. Ams. S > W & N H K

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 8 > 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 - 50% 4 50 - 75% 5 75 - 80% 6 80 - 90% 7 90 - 100%

Stand Composition: **EW 48-49-50%** Size Class Analysis: **R < 10 4 10-24 4 25-50 0 > 50**
AW 28-29-30% Standing Shrubs: **N < 10 4 10-24 4 25-50 0 > 50**
BA: 24 Deadfall / Logs: **N < 10 4 10-24 4 25-50 0 > 50**

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

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

Ecotope: **Fresh-Held Lowland Deciduous forest F. 0512** Code: **FOD 7**

Vegetation Type: **Fresh-Held Lowland Deciduous forest Type** Code: **FOD 7-1**

Inclusion: Code: **F**

Complex: Code: **F**

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Tally 5	Pratt Factor	2
EW	12	6	1	5		41	46
BP	1	3	3			5	21
AW	1	3	4			7	29
MA	1	1				1	4
Total	15	13	12			24	100
Basal Area (BA)	24		24			24	
Dead						1	

Soils Ontario and ELC Soils Description

Soil Horizon Description	Soils Ontario				ELC Soils Description				Summary
	PIV/Auger #	Zone	Easting	Position	Position	Aspect	Slope	Length	
1	Depth from zero	% CF	% CF	% CF	% CF				% CF
2	Depth from zero	% CF	% CF	% CF	% CF				% CF
3	Depth from zero	% CF	% CF	% CF	% CF				% CF
4	Depth from zero	% CF	% CF	% CF	% CF				% CF
Soil Horizon Description	Soil Horizon Description								
Moisture Regime	Moisture Regime								
Drainage	Drainage								
Effective Texture (Indicate below)	Effective Texture (Indicate below)								

PRE-SURVEY COMMENT: turbine is not sufficient - needs to be visited again

ELC Site: 268_GSH1688 Polygon: 28

Community Description and Classification: Surveyor: *SNM* Date: *5/20/11* Time start: *11:20h* finish: *12:45h*

UTMZ: *17T* UTMZ: *444481* UTMN: *4793561*

Polygon Description: *WP 284*

System	Substrate	Topographic Features	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Site <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Acustrine <input checked="" type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input type="checkbox"/> Upland <input type="checkbox"/> Roll, Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input type="checkbox"/> Plantation

Stand Description

Species (In Order of Decreasing Dominance (up to 4 sp))
 (> Much Greater Than; > Greater Than; = About Equal To)

Layer	HT	CVR	Notes
1	3	4	<i>H5 >> A >> H >> R</i>
2	3	3-2	<i>Rub Beech > W > H > R > B</i>
3	3	5	<i>Abr. H. > H > R > S > K > A > L > M > V > L > B > F > M</i>
4	7	2.3	<i>Veronica/Hic > P > V > C > R > P > S > L > F > M > V > L > B > F > M</i>

HT Codes: 7 < 0.2m 0.2-1.0m 1.0-2.0m 2-3.0m 3-4.0m 4-5.0m 5-6.0m 6-7.0m 7-8.0m 8-9.0m 9-10.0m 10-11.0m 11-12.0m 12-13.0m 13-14.0m 14-15.0m 15-16.0m 16-17.0m 17-18.0m 18-19.0m 19-20.0m 20-21.0m 21-22.0m 22-23.0m 23-24.0m 24-25.0m 25-26.0m 26-27.0m 27-28.0m 28-29.0m 29-30.0m 30-31.0m 31-32.0m 32-33.0m 33-34.0m 34-35.0m 35-36.0m 36-37.0m 37-38.0m 38-39.0m 39-40.0m 40-41.0m 41-42.0m 42-43.0m 43-44.0m 44-45.0m 45-46.0m 46-47.0m 47-48.0m 48-49.0m 49-50.0m

CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 50 - 75% 5 75 - 90% 6 90 - 100%

Stand Composition: Size Class Analysis:
 Standing Snags:

0	10-24	4	25-50	0	>50
N	<10	R	10-24	R	25-50
R	<10	O	10-24	O	25-50
R	<10	O	10-24	O	>50

Deadfall / Logs:

0	10-24	0	25-50	0	>50
R	<10	O	10-24	O	25-50
R	<10	O	10-24	O	>50
R	<10	O	10-24	O	>50

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

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

Ecosite: *Fresh to A Maple-Hickory Deciduous Forest* Code: *FOD9*

Vegetation Type: *Fresh Moist Shagbark Hickory Deciduous* Code: *FOD9-4*

Inclusion: *Fresh Type* Code: *-*

Complex: *-* Code: *-*

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avt.
H5	1	5	10	11	27	52
MH	1	3	1	3	8	10
DR	1	3	1	1	6	8
BR	1	3	1	1	6	8
AW	1	3	1	1	6	8
Total	12	15	14	28	40	100
Basal Area (BA)	8.4	30	28		18	
Dead		2			2	

Soils Ontario and ELC Soils Description

Site Metrics

UTM: *N11A*

Slope: *N/A*

Position: *N/A*

Aspect: *N/A*

Percent: *N/A*

Slope Length: *N/A*

Drainage: *N/A*

Depth to...

Depth to...	Moisture Regime	Drainage	Effective Texture (Indicate below)
Gley			
Water Table			
Carbonates			
Bedrock			

Soil Horizon Description

Horizon	Depth from zero	Texture	% CF	% CF	% CF	% CF
1	Depth from zero	Texture	% CF	% CF	% CF	% CF
2	Depth from zero	Texture	% CF	% CF	% CF	% CF
3	Depth from zero	Texture	% CF	% CF	% CF	% CF
4	Depth from zero	Texture	% CF	% CF	% CF	% CF
Moisture Regime						
Drainage						

VASCULAR PLANT CHECKSHEET

Location: 2586SH 1658
Observer: SAM

Date: Sept. 22/11

Job Number:

Table with columns for plant species names and numbered columns 1-6 for each of the three sections: DICOT HERBS, MONOCOT HERBS, and a third unnamed section.

- 1: Polygon #1
2: Polygon #2
3:
4:
5:
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					
Abies balsamea						+ Rosa multiflora						Agrostis gigantea					
Juniperus communis						Rosa						Agrostis stolonifera					
Juniperus virginiana						Rubus allegheniensis				X		Achyrocnemum repens					
Larix laricina						Rubus idaeus				X		Alopecurus					
Picea abies						Rubus occidentalis						Bromus inermis					
Picea mariana						Rubus odoratus						Calamagrostis canadensis					
Pinus resinosa						Rubus pubescens						Carex arctata			X		
Pinus strobus						Salix alba						Carex aurea					
Pinus sylvestris						Salix amygdaloides						Carex bebbii					
Thuja occidentalis						Salix bebbiana						Carex blanda			X		
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 retrorsa					
Acer negundo						Salix x rubens						Carex stipitata					
Acer rubrum						+ Salix						Carex stricta					
Acer saccharinum						Sambucus canadensis						Carex vulpinoidea					
Acer saccharum		X	X			Sambucus racemosa						Carex					
Acer spicatum						Sorbus aucuparia						Carex					
Alnus rugosa						Spiraea alba						Carex					
Amelanchier						Syringa vulgaris						Carex					
Berberis thunbergii						+ Tilia americana				X		Carex					
Betula alleghaniensis						Ulmus americana				X	X	Carex					
Betula papyrifera			X			Ulmus						Carex					
Carpinus caroliniana			X			Vaccinium						Carex					
Carya cordiformis						Viburnum lentago						Carex					
Celastrus scandens						Viburnum opulus						Cyperus					
Cornus alternifolia						Viburnum acerifolium				X		Cyperus					
Cornus amomum						Vitis riparia						Dactylis glomerata					
Cornus rugosa												Danthonia spicata					
Cornus stolonifera						<i>Hamamelis virginiana</i>				X		Echinochloa crus-galli					
Corylus cornuta						<i>Ribes friskii</i>				X		Eleocharis erythropoda					
Crataegus monogyna												Eleocharis					
Crataegus punctata			X									Elymus virginicus					
Crataegus sp.												Elymus					
Crataegus												Festuca arundinacea					
Diervilla lonicera												Glyceria striata					
Fagus grandifolia			X	X								Glyceria					
Fraxinus americana			X	X								Juncus dudleyi					
Fraxinus nigra						FERNS						Juncus effusus					
Fraxinus pennsylvanica						Adiantum pedatum						Juncus tenuis					
Illex verticillata						Athyrium filix-femina				X		Juncus					
Juglans cinerea						Botrychium multifidum						Juncus					
Juglans nigra						Botrychium virginianum						Leersia oryzoides					
Lonicera morrowi						Cystopteris bulbifera						Muhlenbergia					
Lonicera tatarica						Dryopteris carthusiana						Oryzopsis asperifolia					
Lonicera						Dryopteris cristata						Panicum					
Malus pumila						Dryopteris marginalis						Panicum					
Ostrya virginiana			X			Dryopteris						Phalaris arundinacea					
Parthenocissus inerta						Equisetum arvense						Phleum pratense					
Populus balsamifera						Equisetum hyemale						Phragmites australis					
Populus grandidentata			X			Equisetum variegatum						Poa compressa					
Populus tremuloides						Equisetum						Poa pratensis					
Populus deltoides			X			Gymnocarpium dryopteris						Poa					
Prunus pennsylvanica						Lycopodium digitatum						Scirpus atrovirens					
Prunus serotina			X			Lycopodium obscurum						Scirpus cyperinus					
Prunus virginiana						Lycopodium						Scirpus validus					
Prunus						Lycopodium						Scirpus					
Quercus macrocarpa			X			Matteucia struthiopteris						Scirpus					
Quercus rubra			X			Onoclea sensibilis				X		Setaria					
Quercus						Osmunda cinnamonia						Sporanium					
Rhamnus cathartica						Osmunda regalis						Typha angustifolia					
Rhus radicans			X	X		Polypodium acrostichoides						Typha latifolia					
Rhus typhina						Pteridium aquilinum						Typha Xglauca					
Ribes americana			X			Thelypteris palustris											
Ribes cynosbati			X														
Ribes x rubrum																	
Robinia pseudo-acacia																	
Euonymus																	
<i>Ostrya</i>			X	X		<i>Symplocos tinctoria</i>				X							
<i>Carya ovalis</i>			X			<i>Illicium</i>											

(awaiting species confirmation)

ELC WILDLIFE	SITE: 258 GSA 1658	
	POLYGON: (1) + (2)	
	DATE: Sept. 21/11	
	SURVEYORS: SAA	
	START TIME: 1045 h	END TIME: 1307

TEMP (°C): 19	CLOUD (10th): 6	WIND: 1-2	PRECIPITATION: 0.1
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

<input checked="" type="checkbox"/> VERNAL POOLS	<input checked="" type="checkbox"/> SNAGS
<input checked="" type="checkbox"/> HIBERNACULA (Potential) - Rock piles	<input checked="" type="checkbox"/> FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	PTWO	VO		1					
B	AMRO	VO		1					
H	Green Frog	OB		2					
H	Wood frog	OB		7					
M	Chipmunk	VO							

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)

Goshen Feature: 259 GSH1662

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

- Collection/Feature Intersect
- Turbine Buffer/Feature Intersect
- Property Fabric
- Goshen Wind Energy Centre

- Roads
- Access/Collection Line
- Collection Buffer (125m)
- Turbine Buffer (171.5m)



September 1, 2011



Goshen Feature: 259 GSH1498 / G521

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

h
September 1, 2011
GSH1504



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



ELC
Community Description and Classification

Site: OSH 259 1498 Polygon: C
 Surveyor(s): Kowmsta Date: Sept 9/11 Time start: 11:00 finish:
 UTMZ: 17 UTMZ: 445980 UTMN: 4794250

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Site <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input checked="" type="checkbox"/> Tableland <input type="checkbox"/> Roli. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Aivar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Siream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> 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	Carovort → Quercus
2	3	3	Carovort → Quercus
3	4	3	Carovort → Quercus
4	5/6	4	Carovort → Quercus

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

Stand Composition: Size Class Analysis: A < 10 10-24 A 10-24 A 25-50 > 50
 Standing Snags: R < 10 10-24 R 25-50 > 50
 Deadfall / Logs: A < 10 A 10-24 A 25-50 > 50

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

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

Ecosite:	Code:
Vegetation Type:	Code: FOD 9-4
Inclusion:	Code:
Complex:	Code:

Community Profile Diagram/Comments
 Open canopy (about 50-60%) forest selective early
 wetter pool 2 years

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger # 1		Summary	
	Zone	Easting	Moisture Regime	Drainage
Moisture Regime	Easting	Northing		
Drainage	Position	Aspect		
	Percent	Slope		
	Slope	Length		
	Mottles			
	Gley			
	Water Table			
	Carbonates			
	Bedrock			
	Depth from zero	20	% CF	% CF
	Texture	dark gray brown loam		
	Depth from zero	25	% CF	% CF
	Texture	light gray silty sandy silt		
	Depth from zero		% CF	% CF
	Texture			
	Depth from zero		% CF	% CF
	Texture			
	Depth from zero		% CF	% CF
	Texture			
	% Surface Stone/Rock			
	Moisture Regime			
	Drainage			

Polygon
E

259

Sept 9

UTM 446150/4794520

Native Sugar Maple Forest

1/2-4 Acesacu >> Tibumer - Fraamer (FOD 5-1)

3-3 Acesacu > Carcaro - Tilduc - Carovat

4-3 Acesacu >> Pruvim

5-4 Eucobor > Solfox - Crx - Asthote

Size 0 < 10 A < 25 A > 25

Snag 0 R

Dead A 0 R

Polygon G 259 UTM 446075/4794640

Moist Shagbark - Green Ash Dec Forest (FOD 9-4)

2-4 Carovat >> Quemacr - Fraper

3-4 Fraperm >> Ulmanu - Quemacr

4-3 Pruvim - Fraperm

6-3 Rhual, >> Eucobor - Fraving - Carovat

Size A < 10 A < 25 A > 25

Snag R R

Dead A 0

mid age

ELC Community Description and Classification

Site: 466-~~5462~~ **GH 1503** Polygon: **F**

Surveyor(s): **JK** Date: **Sept 9** Time start: **12:30** finish: **12:30**

UTMZ: **UTMN:**

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Shallow Water <input type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Aivar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input checked="" type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> 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	4	<i>Flaxen</i> > <i>Rapin</i>
2	3	3	<i>Frasen</i> > <i>Crabapp</i>
3	6	3	<i>Rhuach</i> > <i>arlate</i> - <i>Astlac</i>
4			

HT Codes: 7 < 0.2m 6 > 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: Size Class Analysis:

Standing Shags:	A	<10	10-24	25-50	>50
Deadfall / Logs:	A	<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

Ecotope: *Young mixed Green Ash*

Vegetation Type: *FOD 7-2*

Inclusion:

Complex:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avl.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

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

ELC
Community Description and Classification

Site: 269_GSH#4 1682 Polygon: H
 Surveyor(s): JKS Date: Sept 4 Time start: 13:15 finish:
 UTMZ: 445980 UTMN: 4794680

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community	
<input type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input type="checkbox"/> Plantation	
History	Cultural	Cover	Open	Shrub	Treed
<input type="checkbox"/> Natural <input type="checkbox"/> Cultural	<input type="checkbox"/> Natural <input type="checkbox"/> Cultural	<input type="checkbox"/> Open <input type="checkbox"/> Shrub <input type="checkbox"/> 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	4	3	Fraxinus -> Carabet
2	3	3	Fraxinus -> Ulmamen
3			
4	6	3	Glystris -> Crx -> Astilac

HT Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition: N = None R = Rare O = Occasional A = Abundant

Standing Snags:	<10	A	10-24	A	25-50	>50
Deadfall / Logs:	<10	A	10-24	A	25-50	>50

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

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

Ecotope: **Green Ash Mineral Swamp** Code: **SND 2-2**

Vegetation Type: Code: **SND 2-2**

Inclusion: Code:

Complex: Code:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor	2
Total							100
Basal Area (BA)							
Dead							

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #		Moisture Regime	Drainage	Summary
	Zone	Easting			
UTM					
Slope					
Depth to ...					
Mottles					
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					

Site 259

Polygon I UTM 445950 / 4794650

Super Map

2-4 Acesau \Rightarrow Poptren $>$ Fraumer

8-3 Acesau

6-3 Acesau - Euoda - Poverig

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

ELC
Community Description and Classification

Site: 259_GSH1662 Polygon: A

Surveyor(s): Kaminstra Date: Sept 9/11 Time start: 9:00 finish: 9:00

UTMZ: 17+ UTMZ: 445790 UTMN: 4794570

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input type="checkbox"/> 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	4		Aspen - Fraxinus
2	3		Ulmaceae > Acer
3	3		Ulmaceae
4	3		Cix sp - Glystra - Astilbe

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 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: Size Class Analysis:

Standing Snags:	A	<10	A	10-24	A	25-50	>50
Deadfall / Logs:	A	<10	A	10-24	A	25-50	>50

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

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

Ecotope: Pioneer Young Mid-Age Mature Old Growth

Vegetation Type: Swamp Maple - Red Ash Swamp

Inclusion: Mineral

Comp lex: SWD 2-2/3-3

Community Profile Diagram/Comments

Broken canopy (~60% cover) from cutting
 stand devoid of second floor - no understorey
 but prob suitable for amphib breeding

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor
Total					100	
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics		PIVAuger #	#1	Summary	
UTM	Zone	Easting		Moisture Regime	
	Northing	Position		Drainage	
Slope	Aspect	Percent	level	Effective Texture (Indicate below)	% CF
	Slope	Length	15		% CF
Moistures	Gley	Water Table			% CF
Carbonates	Bedrock	Depth from zero	15		% CF
		Texture	dark brown / blk		% CF
		Depth from zero	30		% CF
		Texture	mid gray clay		% CF
		Depth from zero			% CF
		Texture			% CF
		Depth from zero			% CF
		Texture			% CF
		% Surface Stone/Rock			% CF
		Moisture Regime			% CF
		Drainage			% CF



ELC
Community Description and Classification

Site: 259_GSH1498 Polygon: B
 Surveyor(s): Kowista Date: Sept 9/11 Time start: 10:30
 UTMZ: 17 UTMZ: 445925 UTMN: 474350

Polygon Description

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

Stand Description

Layer	HT	OVR	Species in Order of Decreasing Dominance (up to 4 sp) (> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Fragaria → Cassia
2	3	3	Fragaria - Urtica → Castanea
3	4	4	Solcama - Rumex - C. glabra - C. glabra
4	4	4	Solcama - Rumex - C. glabra - C. glabra

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 5 > 0.5-1m 4 > 1-2m 3 > 2-4m 2 > 6-25m 1 > 25m - Fraying
 CVR Codes: 0 = none 1.0% - 10% 2.10 - 25% 3.25 - 60% 4 > 60%

Stand Composition: Size Class Analysis: A < 10 A 10-24 25-50 > 50
 Standing Snags: O < 10 O 10-24 25-50 > 50
 Deadfall / Logs: O < 10 R 10-24 25-50 > 50

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

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

Vegetation Type: **Mist Green Ash Dec Forest**
 Inclusion: **ephem pods**
 Code: **FOD 7-2**

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	PH/Auger #	Soils Ontario and ELC Soils Description				Summary
UTM	Zone					
	Easting					
	Northing					
	Position					
	Aspect					
	Percent					
	Slope					
	Length					
	Mottles					
	Gley					
	Water Table					
	Carbonates					
	Bedrock					
	Depth from zero	20	% CF	% CF	% CF	% CF
	Texture	dark grey-brown loam				
	Depth from zero	30	% CF	% CF	% CF	% CF
	Texture	light grey v.f. sandy-silt				
	Depth from zero		% CF	% CF	% CF	% CF
	Texture					
	Depth from zero		% CF	% CF	% CF	% CF
	Texture					
	% Surface Stone/Rock					
	Moisture Regime					
	Drainage					

ELC	SITE: GSH 259	
	POLYGON: perimeter GSH 1498 + 1662	
WILDLIFE	DATE:	
	SURVEYORS: Kamstra	
	START TIME: 9:00	END TIME: 13:30

TEMP (°C): 23	CLOUD (10th): 0	WIND: 1	PRECIPITATION: 0
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

<input type="checkbox"/>	VERNAL POOLS	<input type="checkbox"/>	SNAGS
<input type="checkbox"/>	HIBERNACULA	<input type="checkbox"/>	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	BLJA	VO			L	Appalachian Pewee	OB	in. ash - maple swamp	
	AMCR	"			L	Catbird	OB		
	RWBL	OB			L	Mourning	"		
	HOWR	VO			O	Annual Cicada	VO		
	BOCH				L	R.S. Purple	OB		
	AMRO								
	EWPE								
	WBNU								
	AMGO								
	NOFL				B	BLPW	OB		
	POWO	OB				REVI	VO		
	WTSP	OB							
	BAWW								
M	Raccoon	CA	old bones						
	Gray Squirrel	VO							
	E Chipmunk								
H	Wood Frog	OB	GSH 1498						
H	Spring Frog	VO							

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)

ELC
Community Description and Classification

Map #: 266SH149/2052 Polygon: []

Surveyor(s): [] Date: [] Time start: 9:25 AM finish: 11:40 AM

UTMZ: 454515 UTMZ: 479485 UTMN: []

Polygon Description 6, 6, 6, 6, 6

System	Substrate	Topographic Feature	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic	<input type="checkbox"/> Organic <input type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input checked="" type="checkbox"/> Tableland <input checked="" type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Aivar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Plantation

Stand Description

Species In Order of Decreasing Dominance (up to 4 sp)
 P > Much Greater Than, > Greater Than, = About Equal To

Layer	HT	CVR
1	4	ACESACC - BIAMER - OSTVIG - FAGGAN
2	3	ACESACC - OSTVIG
3	3	TRUVIG > COICARO
4	6	TRIGAN > EWANCO > Ledpelt > Hyd vig

HT Codes: 7 < 0.2m 6 > 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: Size Class Analysis:

Standing Snags:	0	<10	A	10-24	A	25-50	A	25-50	R	>50
Deadfall / Logs:	N	<10	N	10-24	O	25-50	O	25-50	N	>50
	R	<10	O	10-24	O	25-50	O	25-50	N	>50

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

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

Ecosite: Fresh - Moist Sugar Deciduous Forest Ecosite Code: F006
 Fresh - Moist Sugar Deciduous Forest Ecosite Code: F006-5
 Inclusion: Code: SNO2-2/SNDY

Community Profile Diagram/Comments

→ Understory maple, poplar, birch, beech, hickory, nut, oaks.
 → Lately increased in abundance, especially in areas with more light.

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor
						2
Total						
Basal Area (BA)						100
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	2 (900)	Summary
Zone	17	17	
Easting	454515	454515	Moisture Regime
Northing	479485	4794399	
Position	Mid slope	Bottom	
Aspect	E	E	
Percent	10%	1%	
Slope	20M	20M	Drainage
Length			
Mottles	17cm	17cm	
Gley	17cm		
Water Table		17cm	
Carbonates			
Bedrock			
Depth from zero	17cm	17cm	% CF
Texture	SL	SIS	
Depth from zero	40cm	36cm	% CF
Texture	SIS	SC	
Depth from zero			% CF
Texture			
Depth from zero			% CF
Texture			
Depth from zero			% CF
Texture			
% Surface Stone/Rock			
Moisture Regime	6	6	
Drainage	P/1	P/1	

Notes:

Plant Species List
2012

Trees & Shrubs						Tree & Shrubs						Graminoids					
1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	
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>)						Awlless 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 mariana</i>)						Staghorn Sumac (<i>Rhus hirta</i>)						Poverty Oat Grass (<i>Danthonia 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 cynosbati</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>)											
Canada Yew (<i>Taxus canadensis</i>)						<i>Ribes</i>						Fowl Manna Grass (<i>Glyceria striata</i>)					
Eastern White Cedar (<i>Thuja occidentalis</i>)						Black Locust (<i>Robinia pseudo-acacia</i>)						Glyceria					
Eastern Hemlock (<i>Tsuga canadensis</i>)						Prickly Rose (<i>Rosa acicularis</i>)						Rice Cut Grass (<i>Leersia oryzoides</i>)					
						Smooth Rose (<i>Rosa blanda</i>)						Tall Fescue (<i>Lolium arundinaceum</i>)					
						Multiflora Rose (<i>Rosa multiflora</i>)						Muhlenbergia					
						<i>Rosa</i>						Witch-grass (<i>Panicum capillare</i>)					
Deciduous						Com. Blackberry (<i>Rubus allegheniensis</i>)						Panicum					
Manitoba Maple (<i>Acer negundo</i>)						Wild Red Raspberry (<i>Rubus idaeus</i>)						Reed Canary Grass (<i>Phalaris arundinacea</i>)					
Black Maple (<i>Acer nigrum</i>)						Black Raspberry (<i>Rubus occidentalis</i>)						Timothy (<i>Phleum pratense</i>)					
Norway Maple (<i>Acer platanoides</i>)						Purple-fl. Raspberry (<i>Rubus odoratus</i>)						Common Reed (<i>Phragmites australis</i>)					
Red Maple (<i>Acer rubrum</i>)						Dwarf Raspberry (<i>Rubus pubescens</i>)						Canada Blue Grass (<i>Poa compressa</i>)					
Silver Maple (<i>Acer saccharinum</i>)						<i>Rubus</i>						Fowl Meadow Grass (<i>Poa palustris</i>)					
Freeman's Maple (<i>Acer X freemanii</i>)						Peach-leaved Willow (<i>Salix amygdaloides</i>)						Kentucky Bluegrass (<i>Poa pratensis</i>)					
Sugar Maple (<i>Acer saccharum</i>)						Bebb's Willow (<i>Salix bebbiana</i>)						Yellow Foxtail (<i>Setaria pumila</i>)					
Mountain Maple (<i>Acer spicatum</i>)						Pussy Willow (<i>Salix discolor</i>)						Green Foxtail (<i>Setaria viridis</i>)					
Speckled Alder (<i>Alnus incana</i>)						Missouri Willow (<i>Salix eriocephala</i>)											
Downy Serviceberry (<i>Amelanchier arborea</i>)						Sandbar Willow (<i>Salix exigua</i>)											
Serviceberry (<i>Amelanchier sanguinea</i>)						Shining Willow (<i>Salix lucida</i>)											
Yellow Birch (<i>Betula alleghaniensis</i>)						Black Willow (<i>Salix nigra</i>)											
White Birch (<i>Betula papyrifera</i>)						Slender Willow (<i>Salix petiolaris</i>)											
European Birch (<i>Betula pendula</i>)						<i>Salix</i>											
Blue Beech (<i>Carpinus caroliniana</i>)						Hybrid Crack Willow (<i>Salix X rubens</i>)											
Bitternut hickory (<i>Carya cordiformis</i>)						Black-berried Elder (<i>Sambucus nigra</i>)											
Shagbark Hickory (<i>Carya ovata</i>)						Red-berried Elder (<i>Sambucus racemosa</i>)											
Climbing Bittersweet (<i>Celastrus scandens</i>)						Buffaloberry (<i>Shepherdia canadensis</i>)						Sedges					
Common Hackberry (<i>Celtis occidentalis</i>)						Eur. Mountain Ash (<i>Sorbus aucuparia</i>)						Drooping Wood Sedge (<i>Carex arctata</i>)					
Buttonbush (<i>Cephalanthus occidentalis</i>)						Narrow Meadow-sweet (<i>Spiraea alba</i>)						Golden-fruited Sedge (<i>Carex aurea</i>)					
Alt.-leaved Dogwood (<i>Cornus alternifolia</i>)						Common Lilac (<i>Syringa vulgaris</i>)						Graceful Sedge (<i>Carex gracillima</i>)					
Silky Dogwood (<i>Cornus amomum</i>)						Poison-ivy (<i>Toxicodendron rydbergii</i>)						Inland Sedge (<i>Carex interior</i>)					
Bunchberry (<i>Cornus canadensis</i>)						Climbing Poison-ivy (<i>Toxicodendron radicans</i>)						Bladder Sedge (<i>Carex intumescens</i>)					
Gray dogwood (<i>Cornus racemosa</i>)						White Elm (<i>Ulmus americana</i>)						Lake-bank Sedge (<i>Carex lacustris</i>)					
Round-leaved Dogwood (<i>Cornus rugosa</i>)						Siberian Elm (<i>Ulmus pumila</i>)						Hop Sedge (<i>Carex lupulina</i>)					
Red-osier Dogwood (<i>Cornus sericea</i>)						Slippery Elm (<i>Ulmus rubra</i>)						Pennsylvania Sedge (<i>Carex pennsylvanica</i>)					
American Hazel (<i>Corylus americana</i>)						Low Blueberry (<i>Vaccinium angustifolium</i>)						Awl-fruited Sedge (<i>Carex stipata</i>)					
Beaked Hazel (<i>Corylus cornuta</i>)						Maple-leaf Viburnum (<i>Viburnum acerifolium</i>)						Fox Sedge (<i>Carex vulpinoidea</i>)					
Cockspur Thorn (<i>Crataegus crus-galli</i>)						Hobblebush (<i>Viburnum lantanoides</i>)						Carex <i>pp</i>					
English Hawthorn (<i>Crataegus monogyna</i>)						Nannyberry (<i>Viburnum lentago</i>)						Carex <i>pp</i>					
Large-fruited Thorn (<i>Crataegus punctata</i>)						Guelder-Rose (<i>Viburnum opulus</i>)						Carex					
<i>Crataegus</i>						Downy Arrow-wood (<i>Vib. rafinesquianum</i>)						Carex					
<i>Crataegus</i>						Riverbank Grape (<i>Vitis riparia</i>)						Carex					
Bush Honeysuckle (<i>DierVilla lonicera</i>)						Am. Prickly-ash (<i>Zanthoxylum americanum</i>)						Carex					
Russian Olive (<i>Elaeagnus angustifolia</i>)						<i>Tilia americana</i>						Carex					
Autumn Olive (<i>Elaeagnus umbellata</i>)						<i>Tilia</i>						Carex					
Run. Strawberry-bush (<i>Euonymus obovata</i>)						<i>Tilia</i>						Carex					
American Beech (<i>Fagus grandifolia</i>)						<i>Tilia</i>						Carex					
Glossy Buckthorn (<i>Frangula alnus</i>)						Ferns & Allies						Carex					
White Ash (<i>Fraxinus americana</i>)						Lady Fern (<i>Athyrium filix-femina</i>)						Carex					
Black Ash (<i>Fraxinus nigra</i>)						Rattlesnake Fern (<i>Botrychium virginianum</i>)						Cyperus					
Green Ash (<i>Fraxinus pennsylvanica</i>)						Bulb. Bladder Fern (<i>Cystopteris bulbifera</i>)						Redroot Spike-rush (<i>Eleocharis erythropoda</i>)					
Witch-hazel (<i>Hamamelis virginiana</i>)						Spin. Wood Fern (<i>Dryopteris carthusiana</i>)						Eleocharis					
Winterberry (<i>Ilex verticillata</i>)						Crested Wood Fern (<i>Dryopteris cristata</i>)						Hard-stem Bulrush (<i>Schoenoplectus acutus</i>)					
Butternut (<i>Juglans cinerea</i>)						Marginal Wood Fern (<i>Dryopteris marginalis</i>)						Three-square Bulrush (<i>Sch. pungens</i>)					
Black Walnut (<i>Juglans nigra</i>)						<i>Dryopteris</i>						Soft-stem Bulrush (<i>Sch. tabernaemontani</i>)					
Common Privet (<i>Ligustrum vulgare</i>)						Ostrich Fern (<i>Matteuccia struthiopteris</i>)						Dark-green Bulrush (<i>Scirpus atrovirens</i>)					
Spicebush (<i>Lindera benzoin</i>)						Sensitive Fern (<i>Onoclea sensibilis</i>)						Wool-grass (<i>Scirpus cyperinus</i>)					
Fly Honeysuckle (<i>Lonicera canadensis</i>)						Cinnamon Fern (<i>Osmunda cinnamomea</i>)											
Glaucous Honeysuckle (<i>Lonicera dioica</i>)						Interrupted Fern (<i>Osmunda claytoniana</i>)											
Morrow's Honeysuckle (<i>Lonicera morrowii</i>)						Royal Fern (<i>Osmunda regalis</i>)											
Tartarian Honeysuckle (<i>Lonicera tatarica</i>)						Christmas Fern (<i>Polystichum acrostichoides</i>)											
Common Apple (<i>Malus pumila</i>)						Eastern Bracken-fern (<i>Pteridium aquilinum</i>)											
White Mulberry (<i>Morus alba</i>)						Marsh Fern (<i>Thelypteris palustris</i>)											
Sweet Gale (<i>Myrica gale</i>)												Other Graminoids					
Ironwood (<i>Ostrya virginiana</i>)												Broad Bur-reed (<i>Sparganium eurycarpum</i>)					
Thicket-creeper (<i>Parthenocissus inserta</i>)												Narrow-leaved Cattail (<i>Typha angustifolia</i>)					
Ninebark (<i>Physocarpus opulifolius</i>)						Field Horsetail (<i>Equisetum arvense</i>)						Broad-leaved Cattail (<i>Typha latifolia</i>)					
Balsam Poplar (<i>Populus balsamifera</i>)						Scouring-rush (<i>Equisetum hyemale</i>)						Broad-leaved Cattail (<i>Typha X glauca</i>)					
Eastern Cottonwood (<i>Populus deltoides</i>)						Variegated Horsetail (<i>Equisetum variegatum</i>)						Articulated Rush (<i>Juncus articulatus</i>)					
Large-tooth Aspen (<i>Populus grandidentata</i>)						<i>Equisetum</i>						Soft Rush (<i>Juncus effusus</i>)					
Trembling Aspen (<i>Populus tremuloides</i>)						Ground-cedar (<i>Lycopodium digitatum</i>)						Path Rush (<i>Juncus tenuis</i>)					
Sweet Cherry (<i>Prunus avium</i>)						Shining Clubmoss (<i>Lycopodium lucidulum</i>)						Juncus					
Pin Cherry (<i>Prunus pensylvanica</i>)						Ground-pine (<i>Lycopodium obscurum</i>)						Juncus					
Black Cherry (<i>Prunus serotina</i>)																	
Choke Cherry (<i>Prunus virginiana</i>)																	
<i>Prunus</i>																	

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 about five individuals or small clumps

Map Number:	2165H 1492/2052	1	2	3	4	5
Date:	Apr 20, 2012	2	3	4	5	
Surveyors:	JR + TS	3				

Significant Wildlife Habitat Form

AECOM

Study Area: BLW JER (GSH) Map #: 261-GSH1492/2052
 Date: 2012-04-30 Time Started: 9:25 a.m.
 Field Staff: Tom Shorney Jess Piette Time Finished: 11:40 a.m.
 Weather Conditions: overcast, 6°C, light breeze

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)
 UTM: _____ 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)
 UTM: 454515 4794400 Area of standing water delineated on field map
 Water depth (m): 20-30cm % open water: 70 % emergent vegetation: 10%
 Description of standing water (permanent pool, evidence of annual spring flooding, etc): vernal Pooling, Potentially dry by mid-July
 Area and soil/substrate of shoreline habitat: Shoreline habitat mineral Soil -> moderate cover along edge
 Type and abundance of cover in open water habitat: Culex sp -> 5%, Phragmites sp - 5%
 Type and abundance of cover in surrounding habitat: Surrounding habitat mature trees and regeneration -> 80% cover -> Pine 40%, Cottonwood 50%, Juniper 10%
 Evidence of disturbance (e.g. cattle grazing): Forest management
 Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: No evidence of activity in area.

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)
 UTM: _____ 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)
 UTM: _____ 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
1, 9, 12	Vernal Pools		

Species Conservation Concern Habitat and Incidental Wildlife - Goshen

Map No: 261-5511492/2052
 Date (yyyy-mm-dd): 2012-04-30

Field Staff: Tom Skelley
 Jess Peete



Time Started: 9:25 a.m.
 Time Finished: 11:40 a.m.

Observed Species List

Species Code	UTM	EV	Notes	Species Code	UTM	EV	Notes
Down		VO	calling within FOD6-S				
Flicker		VO					
Fox		Den	Den in mound				
Blue Jay		VO					
Red-shouldered hawk		VO					
honeycreeper		OB	within Field 6501492				

Note: Evidence Codes (EV) Breeding Bird (Possible) 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=Feeds/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 signs (specify)
 A N U + obse(Uej) → N/O ✕

ELC	Species	Habitat Description	Habitat Present (Y/N; UTM; description of habitat if present)
PLANTS			
FOD7	American Gromwell (<i>Lithospermum latifolium</i>) - S3 Bloom Time - Spring	Shaded river banks, wooded floodplains. River floodplains, woods and edges of woods.	Y (N) UTM: 6/1
ALO, TPO	Muehlenberg's astomum moss (<i>Astorum muehlenbergianum</i>) - S2 Bloom Time - 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 Bloom Time - 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>Euonymus atropurpureus</i>) - S3 Bloom Time - 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 Bloom Time - 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 Bloom Time - 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: N/O
ALT1, FOD7	Eastern Green-violet (<i>Hybanthus concolor</i>) - S2 Bloom Time - 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:
TPO2, TPS2, TPW2	Giant Ironweed (<i>Vernonia gigantea</i>) - S1? Bloom Time -	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>) - S1/S3 Bloom Time - May and June	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 N/O
TPO1, TPS1, TPW1, FOM1, FOM2, FOD1, FOD2, FOD3	June-August Hairy Bedstraw (<i>Galium pilosum</i>) - S3 Bloom Time - June-August	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	June to August Hairy Valerian (<i>Valeriana edulis</i>) - S1 Bloom Time - June to August	Inhabits swampy river flats and meadows, wet prairies, and wooded, rocky riverbanks and fens.	Y N UTM
FOD6, FOD7, SWM, (SWD)	Summer Hairy Wood Mint (<i>Blephilia hirsuta</i>) - S1 Bloom Time - Summer	Woodlands, often rocky, especially rivers. Rich woods, swamp forests, floodplains	Y N UTM N/O
(FOD6) FOD7, FOD8, FOD9	Time - early to late April Harbinger-of-spring (<i>Erigenia bulbosa</i>) - S3 Bloom	Occurs in rich, moist deciduous woods especially on floodplains	Y N UTM N/O
SAS1, SAM1, SAF1	Time - summer Hill's Pond Weed (<i>Potamogeton hillii</i>) - S1/S2 Bloom	Aquatic plant found in highly alkaline waters of ditches, ponds, beaver ponds, and slow-moving cold waters	Y N UTM
FOM6, FOM7, FOM8	Large Round-leaved Orchid (<i>Platanthera macrophylla</i>) - S2 Bloom Time - June to August	Species inhabits moist mixed woods. Found in fairly mature, upland sugar maple-beech-eastern hemlock woodlands.	Y N UTM
MAM2, MAM3, MAS2, MAS3 (SWD)	June - September Lizard's Tail (<i>Saururus cernuus</i>) - S3 Bloom Time - June - September	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 N/O
(FOD6) FOD7, FOD9	March - May Pawpaw (<i>Asimina triloba</i>) - S3 Bloom Time - March-May	Occurs in moist deciduous woods and stream banks.	Y N UTM N/O
FOM8, (FOD6) FOD7, FOD9, CUM1	PiLOSE Evening Primrose (<i>Oenothera pilosella</i>) - S2 Bloom Time - Late Spring - Early Summer	Moist edges of woods and open, disturbed ground	Y N UTM N/O
TPW1, FOM1, FOM2, FOD1, FOD2, FOD3	Prostrate Tick-trefoil (<i>Desmodium rotundifolium</i>) - S2 Bloom Time - July-September	Dry, sandy or rocky woods	Y N UTM
FOD7, (SWD)	March - June Pumpkin Ash (<i>Fraxinus profunda</i>) - S2? Bloom Time - March - June	Swamp and floodplains	Y N UTM N/O
CUW1, ALO, FET1, SWC	Ram's-head Lady's-slipper (<i>Cypripedium arietinum</i>) - S3 Bloom Time - mid May to mid June	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	Bloom Time - April - September Rattlesnake Hawkweed (<i>Hieracium venosum</i>) - S2	Species inhabits open, dry sandy woods, Jack pine, oak, and aspen woodlands.	Y N UTM
(FOD6) FOD7, FOD9	Time - May - June Round-leaved Groundsel (<i>Packera obovata</i>) - S3 Bloom Time - May - June	Found in moist woods	Y N UTM N/O
CUM1, CUT1, CUS1	Round-leaved hawthorn (<i>Crataegus lumarina</i>) - S3?	Species occurs in old fields, poorly managed pastures, fencelines and roadsides	Y N UTM
(FOD6) FOD7, FOD8, FOD9, SWT2, SWT3	May to October Scarlet Beebalm (<i>Monarda didyma</i>) - S3 Bloom Time - May to October	Found in moist, rich woods, thicket swamps, banks and floodplains	Y N UTM N/O
ALO, ALS, ALT, TPO, TPS, TPW	Slender Blazing Star (<i>Liatris 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	Slender Knotweed (<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	Slim-flowered Muhly (<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
BLO1, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7	Time - late summer to mid fall Stiff Gentian (<i>Gentiana quinquefolia</i>) - S2 Bloom	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	mid-March to mid-June Sundial Lupine (<i>Lupinus perennis</i>) - S3 Bloom Time - mid-March to mid-June	Inhabits dry, sandy oak savannas, prairies, open barrens or clearings in woodlands of oak, jack pine, and/or aspen.	Y N UTM

Species Conservation Concern Habitat and Incidental Wildlife – Goshen

A'OM

ELC	Species	Habitat Description	Habitat Present (Y/N); UTM; description of habitat if present
TPO1, TPS1, TPW1, CUM1	Tall Blazing Star (<i>Liatris 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>Amoglossum 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 shrubby 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 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 virginiensis</i>) - SC	This species is restricted to rich, moist, deciduous woods, where its foodplant Toothwort occur	Y (N) UTM:

Wetland Data Collection Sheet



Study area: <u>GOSHEN</u>	Map No: <u>261 GSH1492/2050</u>
Date (yyyy-mm-dd): <u>April 30, 2012</u>	Time Started: <u>9:25 am</u>
Field Staff: <u>Jess Little + Tam Shaney</u>	Time Finished: <u>11:40 am</u>

Presence of Groundwater No Yes

bank seepage iron staining groundwater indicator

Site Type

Lacustrine (associated with lakes) Isolated

Riverine (associated with rivers) no inputs noted in general water indicators

Palustrine absent or intermittent inflow and either intermittent or permanent outflow

what are the water inputs and outputs? surface water

Soils refer to ELC card for soils information

% open Water

Type 1 - <5% Type 5 - 26-75% (water occurring in a small pattern)

Type 2 - 5-25% (water occurring in one central location) Type 6 - 76-95% (occurring in a central location, vegetation is peripheral)

Type 3 - 5-25% (water occurring in ponds of various sizes) Type 7 - 76-95% (vegetation occurs in patches or diffuse, open stands)

Type 4 - 26-75% (water occurring in a central location) Type 8 - >95% (water occupies over 95% of the area)

Community Descriptions

25% Vegetation forms

h (deciduous trees)	ne (narrow leaved emergents)	ts (tall shrubs 1-6m)	f (aquatic with floating leaf)
c (coniferous trees)	be (broad leaved emergents)	ls (low shrubs up to 1m)	ff (free floating)
dh (dead deciduous trees)	gc (ground cover)	ds (dead shrubs)	su (all under water)
dc (dead coniferous trees)	m (mosses)	re (robust emergents)	u (unvegetated)

Map Code/ ELC Code	Community Description - list at least four dominant species for each form
<u>SW02-2/ SW04 S1</u>	<u>h* Cottonwood, Green ash, Freeman's maple</u>

Wetland Data Collection Sheet



Notes on Ecological Functions or features

should include notes on: furbearer, cranberries, wild rice, baitfish, bullfrogs, winter cover for wildlife, suitability for waterfowl breeding staging, moulting, evidence of recreational activities, disturbance, surrounding topography (flat, rolling, hilly, steep), and surrounding habitat diversity

→ several large dens were observed adjacent to wetlands

→ there are very small communities within larger Furbearer community

- Legend**
- Transmission Line
 - Waterbodies
 - Watercourse
 - PSW
 - ABCA Regulation Limit
 - Properties
 - ELC
 - Valleylands
 - Disturbance Area (180m Buffer)

Revisions from Ontario Ministry of Natural Resources
 Cartography 2010
 Turbine Layout April 4, 2012



UTM Zone 17N, NAD 83

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ELC Survey

**Goshen ELC Survey -
 Transmission Line
 261_GSH2049, GSH2050**

April 2012
 Project 60155032



Figure 1



ELC
Community Description and Classification

Map #: 261-GSH 1492 Polygon: 1
 Surveyor(s): Date: June 29, 2012 Time start: 1:00 PM finish: 2:40 PM
 UTMZ: UTMN:

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	2.3	2.3	Poplar > Eucalyptus > Soft Pine
2	2.3	2.3	Eucalyptus > White Pine > Fir
3	4	3	Fern = 50% tall
4	6.5	4	Poplar = 50% tall

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

Stand Composition:	Size Class Analysis:	Standing Snags:	Deadfall / Logs:
	<input type="checkbox"/> < 10 <input type="checkbox"/> 10-24 <input type="checkbox"/> 25-50 <input type="checkbox"/> > 50	<input type="checkbox"/> < 10 <input type="checkbox"/> 10-24 <input type="checkbox"/> 25-50 <input type="checkbox"/> > 50	<input type="checkbox"/> < 10 <input type="checkbox"/> 10-24 <input type="checkbox"/> 25-50 <input type="checkbox"/> > 50

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

Com. Age:	<input type="checkbox"/> Pioneer <input type="checkbox"/> Young <input checked="" type="checkbox"/> Mid-Age <input type="checkbox"/> Mature <input type="checkbox"/> Old Growth
-----------	---

Ecosite:	Mineral Thicket Swamp	Code:	SWT2
Vegetation Type:	gray dogwood mineral thicket swamp	Code:	SWT2-9
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Disturbed site
 some areas of dominant hardwood with potential
 of some soil, other areas of open water

Notes:

Wash and cotton wood
 - Influenced by tile drain
 - More area is open, could be a FOS7-2, but not dominated by Ash in OLS, highest cover is shrub layer.

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	Soils Description				Summary
Zone	17T					
Easting	0454468					
Northing	4794629					
Position	flat					
Aspect						
Percent						
Slope						
Length						
Mottles						
Gley						
Water Table						
Carbonates						
Bedrock						
Depth from zero	30ft	% CF	% CF	% CF	% CF	% CF
Texture	silt w high % of organic mat	% CF	% CF	% CF	% CF	% CF
Depth from zero		% CF	% CF	% CF	% CF	% CF
Texture	Organic phase material?	% CF	% CF	% CF	% CF	% CF
Depth from zero		% CF	% CF	% CF	% CF	% CF
Texture		% CF	% CF	% CF	% CF	% CF
Depth from zero		% CF	% CF	% CF	% CF	% CF
Texture		% CF	% CF	% CF	% CF	% CF
% Surface Stone/Rock						
Moisture Regime	?					
Drainage	?					

Wash and cotton wood
 - Influenced by tile drain
 - More area is open, could be a FOS7-2, but not dominated by Ash in OLS, highest cover is shrub layer.



- Legend**
- Transmission Line
 - Waterbodies
 - Watercourse
 - PSW
 - ABCA Regulation Limit
 - Properties
 - ELC
 - Valleylands
 - Disturbance Area (180m Buffer)

Reshaping from Ontario Ministry of Natural Resources
 Ontario
 Urban Layout April 4, 2012

UTM Zone 17N, NAD 83

0 12.5 25 50
 1:2,500

North arrow pointing up.

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AECOM

Goshan ELC Survey -
 261_GSH2049, GSH2080

April 2012
 Project 00155032

Figure 1

ELC Community Description and Classification

Map #: 261 2049/2050 Polygon: F019

Surveyor(s): Date: start: finish: 8:00am 10:20am
 UTMZ: UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input checked="" type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input checked="" type="checkbox"/> Valley Slope <input type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> 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	4		Carex - Tulmer - asyng - Quercus
2	3		Galium - Carovet - ALESAL - Fraxina
3	3		PIUVIRA > CUCALO
4	4		Toxaria > NEROMALL > Soligana > RELICANA

HT Codes: 7 < 0.2m 6 > 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:	Size Class Analysis:	Standing Snags:	Deadfall / Logs:
	A < 10 A 10-24 A 10-24 A 10-24	< 10 < 10 < 10	< 10 < 10 < 10
A:			

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

Comm. Age: Pioneer Young Mid-Age Mature Old Growth

Ecosite:	Fresh-Moist Sugar Maple-OAK-Hickory-Deciduous	Code:	E009
Vegetation Type:	Forest	Code:	
Inclusion:	Common Ash, Mineral Rich, Deciduous Swamp, Tilia	Code:	SWAMP
Complex:		Code:	

Community Profile Diagram/Comments

→ Very luxuriantly developing with a mosaic of species from forest to swamp.

* Complex mixed vegetation.

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor
Total						
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Ph/Auger #	1	2	3	4	Summary
Zone		17				
Easting		454334				
Northing		4794925				
Position		SubTm				
Aspect		E				
Percent		21				
Slope		30m				
Length		22cm				
Mottles						
Gley						
Water Table						
Carbonates						
Bedrock						
Depth from zero		22				% CF
Texture		SIC				% CF
Depth from zero		43				% CF
Texture		C structure				% CF
Depth from zero						% CF
Texture						% CF
Depth from zero						% CF
Texture						% CF
% Surface Stone/Rock						
Moisture Regime		6				
Drainage		1/1				

ELC
Community Description and Classification

Map #: ZL1 6SH2049/2050 Polygon: F006-5

Surveyor(s): Date: Time start: 8:00 am finish: 10:20 am

UTMZ: UTMZ: UTMZ:

Polygon Description

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

Stand Description

Layer	HT	OVR	Species In Order of Decreasing Dominance (up to 4 sp) (> Much Greater Than; > Greater Than; = About Equal To)
1	4		ACESAC - FAGGEMAN > ASTUNG > TIANECL
2	2		ACESAC - FAGGEMAN - ASTUNG
3	2		FAGGEMAN > COP CARO > PLUING
4	2		ACESAC > PLUING > TILLUMAY AP.

HT Codes: 7 < 0.2m 6 > 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: Size Class Analysis:

Standing Snags:	A	<10	A	10-24	A	25-50	O	>50
Deadfall / Logs:	N	<10	O	10-24	A	25-50	O	>50
				10-24	A	25-50	N	>50

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

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

EcoSite: Fresh-Moist Sugar Maple Deciduous Forest Ecotone Code: F0D6-5

Vegetation Type: Fresh-Moist Sugar Maple - Hardwood Deciduous Forest Type Code: F0D6-5

Inclusion: Code:

Complex: Code:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor
Total					100	2
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	Summary
Zone	1	
Easting	17	
Northing	454382	
Position	49A4855	
Aspect	TOP	
Percent	N	
Slope	20%	
Length	SUM	
Mottles	34CM	
Gley	-	
Water Table	-	
Carbonates	-	
Bedrock	-	
Depth from zero	16cm	% CF
Texture	SIL	% CF
Depth from zero	34cm	% CF
Texture	C	% CF
Depth from zero		% CF
Texture		% CF
Depth from zero		% CF
Texture		% CF
% Surface Stone/Rock		
Moisture Regime	5	
Drainage	P1	