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Map Number: 300 GSH 2114
Date: May 2, 2012
Surveyors: JP + TS

Plant Species List 2012

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Dicot Herbs - Asteraceae						Dicot Herbs						Dicot Herbs					
Common Yarrow (<i>Achillea millefolium</i>)						Shepherd's Purse (<i>Capsella bursa-pastoris</i>)						Kidney-leaf Buttercup (<i>Ranunculus abortivus</i>)					
White Snakeroot (<i>Ageratina altissima</i>)						Cutleaf Toothwort (<i>Cardamine concatenata</i>)						Tall Buttercup (<i>Ranunculus acris</i>)					
Com. Ragweed (<i>Ambrosia artemisiifolia</i>)						Toothwort (<i>Cardamine diphylla</i>)						Hooked Buttercup (<i>Ranunculus recurvatus</i>)					
Giant Ragweed (<i>Ambrosia trifida</i>)						Penn. Bitter-cress (<i>Cardamine pennsylvanica</i>)						<i>Ranunculus</i>					
Field Pussytoes (<i>Antennaria neglecta</i>)						<i>Cardamine</i>						Sheep Sorrel (<i>Rumex acetosella</i>)					
<i>Artemisia</i>						Blue Cohosh (<i>Caulophyllum thalictroides</i>)						Curly-leaf Dock (<i>Rumex crispus</i>)					
Common Burdock (<i>Arctium minus</i>)						Mouse-ear Chickweed (<i>Cerastium fontanum</i>)						Bitter Dock (<i>Rumex obtusifolius</i>)					
Nodding Beggar-ticks (<i>Bidens cernua</i>)						Turtlehead (<i>Chelone glabra</i>)						Bloodroot (<i>Sanguinaria canadense</i>)					
Devil's Beggar-ticks (<i>Bidens frondosa</i>)						Spotted Water-hemlock (<i>Cicuta maculata</i>)						Black Snakeroot (<i>Sanicula marilandica</i>)					
Spotted Knapweed (<i>Centaurea biebersteinii</i>)						Water-hemlock (<i>Cicuta virosa</i>)						Bouncing Bet (<i>Saponaria officinalis</i>)					
Brown Knapweed (<i>Centaurea jacea</i>)						Enchanter's Nightshade (<i>Circaea lutetiana</i>)						Marsh Skullcap (<i>Scutellaria galericulata</i>)					
Chicory (<i>Cichorium intybus</i>)						Carolina Spring Beauty (<i>Claytonia caroliniana</i>)						Mad Dog Skullcap (<i>Scutellaria lateriflora</i>)					
Canada Thistle (<i>Cirsium arvense</i>)						Virginia Spring Beauty (<i>Claytonia virginica</i>)						White Campion (<i>Silene latifolia</i>)					
Bull Thistle (<i>Cirsium vulgare</i>)						Virgin's-bower (<i>Clematis virginiana</i>)						Bladder Campion (<i>Silene vulgaris</i>)					
Horseweed (<i>Conyza canadensis</i>)						Field Bindweed (<i>Convolvulus arvensis</i>)						Hemlock Water-parsnip (<i>Sium suave</i>)					
Daisy Fleabane (<i>Erigeron annuus</i>)						Dog-strangling Vine (<i>Cynanchum rossicum</i>)						Bitter Nightshade (<i>Solanum dulcamara</i>)					
Philadelphia Fleabane (<i>Erig. philadelphicus</i>)						Wild Carrot (<i>Daucus carota</i>)						Black Nightshade (<i>Solanum ptychanthum</i>)					
<i>Erigeron</i>						Deptford Pink (<i>Dianthus armeria</i>)						Grassleaf Stitchwort (<i>Stellaria graminea</i>)					
Joe-pye-weed (<i>Eupatorium maculatum</i>)						Squirrel-corn (<i>Dicentra canadensis</i>)						Common Chickweed (<i>Stellaria media</i>)					
Boneset (<i>Eupatorium perfoliatum</i>)						Dutchman's-breeches (<i>Dicentra cucullaria</i>)						Early Meadow-rue (<i>Thalictrum dioicum</i>)					
Large-leaved Aster (<i>Eurybia macrophylla</i>)						Wild Teasel (<i>Dipsacus fullonum</i>)						Tall Meadow-rue (<i>Thalictrum pubescens</i>)					
Flat-top Goldenrod (<i>Euthamia graminifolia</i>)						Wild Cucumber (<i>Echinocystis lobata</i>)						Field Penny-cress (<i>Thlaspi arvense</i>)					
Orange Hawkweed (<i>Hieracium aurantiacum</i>)						Viper's Bugloss (<i>Echium vulgare</i>)						Foamflower (<i>Tiarella cordifolia</i>)					
Field Hawkweed (<i>Hieracium caespitosum</i>)						Northern Willow-herb (<i>Epilobium ciliatum</i>)						Star-flower (<i>Trientalis borealis</i>)					
<i>Hieracium</i>						Hairy Willow-herb (<i>Epilobium hirsutum</i>)						Red Clover (<i>Trifolium pratense</i>)					
Elecampane (<i>Inula helenium</i>)						Small-fl. Willow-herb (<i>Epilobium parviflorum</i>)						White Clover (<i>Trifolium repens</i>)					
Prickly Lettuce (<i>Lactuca serriola</i>)						<i>Epilobium</i>						<i>Trifolium</i>					
<i>Lactuca</i>						Worm Mustard (<i>Erysimum cheiranthoides</i>)						Stinging Nettle (<i>Urtica dioica</i>)					
Ox-eye Daisy (<i>Leucanthemum vulgare</i>)						<i>Euphorbia</i>						Greater Bladderwort (<i>Utricularia vulgaris</i>)					
Pineapple-weed (<i>Matricaria discoidea</i>)						Hemp Nettle (<i>Galeopsis tetrahit</i>)						Common Mullen (<i>Verbascum thapsus</i>)					
Tall White Lettuce (<i>Prenanthes altissima</i>)						Wild Madder (<i>Galium mollugo</i>)						Blue Vervain (<i>Verbena hastata</i>)					
Black-eyed Susan (<i>Rudbeckia hirta</i>)						Marsh Bedstraw (<i>Galium palustre</i>)						White Vervain (<i>Verbena urticifolia</i>)					
Tall Goldenrod (<i>Solidago altissima</i>)						Sweet-scented Bedstraw (<i>Galium triflorum</i>)						Water Speedwell (<i>Veron. anagallis-aquatica</i>)					
Blue-stem Goldenrod (<i>Solidago caesia</i>)						<i>Galium</i>						Common Speedwell (<i>Veronica officinalis</i>)					
Canada Goldenrod (<i>Solidago canadensis</i>)						Spotted Geranium (<i>Geranium maculatum</i>)						<i>Veronica</i>					
Zig-zag Goldenrod (<i>Solidago flexicaulis</i>)						Herb-robert (<i>Geranium robertianum</i>)						Cow Vetch (<i>Vicia cracca</i>)					
Giant Goldenrod (<i>Solidago gigantea</i>)						Yellow Avens (<i>Geum aleppicum</i>)						<i>Vicia</i>					
Early Goldenrod (<i>Solidago juncea</i>)						White Avens (<i>Geum canadense</i>)						Periwinkle (<i>Vinca minor</i>)					
Gray Goldenrod (<i>Solidago nemoralis</i>)						Urban Avens (<i>Geum urbanum</i>)						Dog Violet (<i>Viola conspersa</i>)					
<i>Solidago</i> (f)						Dame's Rocket (<i>Hesperis matronalis</i>)						Yellow Violet (<i>Viola pubescens</i>)					
Field Sow-thistle (<i>Sonchus arvensis</i>)						Virg. Water-leaf (<i>Hydrophyllum virginianum</i>)						Com. Blue Violet (<i>Viola sororia</i>)					
<i>Sonchus</i>						Com. St. John's-wort (<i>Hypericum perforatum</i>)						<i>Viola</i>					
Heart-leaf Aster (<i>Symph. cordifolium</i>)						Spotted Jewelweed (<i>Impatiens capensis</i>)											
Heath Aster (<i>Symph. erythrorhizon ericoides</i>)						Wood Nettle (<i>Laportea canadensis</i>)											
Tall White Aster (<i>Symph. lanceolatum</i>)						Motherwort (<i>Leonurus cardiaca</i>)											
Calico Aster (<i>Symph. lateriflorum</i>)						Field Peppergrass (<i>Lepidium campestre</i>)											
New England Aster (<i>Symph. novae-angliae</i>)						Eur. Gromwell (<i>Lithospermum officinale</i>)											
Purple-stem Aster (<i>Symph. puniceus</i>)						Butter & Eggs (<i>Linaria vulgaris</i>)											
Common Tansy (<i>Tanacetum vulgare</i>)						Great Lobelia (<i>Lobelia siphilitica</i>)											
Common Dandelion (<i>Taraxacum officinale</i>)						<i>Lobelia</i>											
Com. Goatsbeard (<i>Tragopogon pratensis</i>)						Cut-leaf Bugleweed (<i>Lycopus americanus</i>)						Water-plantain (<i>Alisma plantago-aquatica</i>)					
Cott'sfoot (<i>Tussilago farfara</i>)						Northern Bugleweed (<i>Lycopus uniflorus</i>)						Wild Leek (<i>Allium tricoccum</i>)					
						Fringed Loosestrife (<i>Lysimachia ciliata</i>)						Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)					
						Moneywort (<i>Lysimachia nummularia</i>)						Asparagus (<i>Asparagus officinalis</i>)					
						<i>Lysimachia</i>						Wild Calla (<i>Calla palustris</i>)					
						Purple Loosestrife (<i>Lythrum salicaria</i>)						Bluebead-lily (<i>Clintonia borealis</i>)					
						Black Medick (<i>Medicago lupulina</i>)						Garden Lily-of-the-valley (<i>Convallaria majalis</i>)					
						Alfalfa (<i>Medicago sativa</i>)						Yel. Lady's Slipper (<i>Cypripedium parviflorum</i>)					
						White Sweet-clover (<i>Medicago alba</i>)						Canada Waterweed (<i>Elodea canadensis</i>)					
						Yellow Sweet-clover (<i>Medicago officinalis</i>)						Helleborine (<i>Epipactis helleborine</i>)					
						Wild Mint (<i>Mentha arvensis</i>)						Yellow Trout Lily (<i>Erythronium americanum</i>)					
						Wild Bergamot (<i>Monarda fistulosa</i>)						Blue-flag Iris (<i>Iris versicolor</i>)					
						Small Forget-me-not (<i>Myosotis laxa</i>)						Orange Day Lily (<i>Helmerocallis fulva</i>)					
						Forget-me-not (<i>Myosotis scorpioides</i>)						Lesser Duckweed (<i>Lemna minor</i>)					
						Water-cress (<i>Nasturtium officinale</i>)						Starry Duckweed (<i>Lemna trisulca</i>)					
						Com. Evening-primrose (<i>Oenothera biennis</i>)						Wild Lily-of-the-valley (<i>Maianthemum canadense</i>)					
						Sweet-cicely (<i>Osmorhiza berterii</i>)						False Solom Seal (<i>Maianthemum racemosum</i>)					
						Yellow Wood-sorrel (<i>Oxalis stricta</i>)						Star False Solomon (<i>Maianthemum stellatum</i>)					
						Wild Parsnip (<i>Pastinaca sativa</i>)						True Solomon Seal (<i>Polygonatum pubescens</i>)					
						English Plantain (<i>Plantago lanceolata</i>)						Pickering-weed (<i>Pontederia cordata</i>)					
						Common Plantain (<i>Plantago major</i>)						Curly-leaf Pondweed (<i>Potamogeton crispus</i>)					
						Rugel's Plantain (<i>Plantago rugelii</i>)						Sago Pondweed (<i>Potamogeton pectinatus</i>)					
						May-apple (<i>Podophyllum peltatum</i>)						<i>Potamogeton</i>					
						Pale Smartweed (<i>Polygonum lapathifolium</i>)						<i>Potamogeton</i>					
						Lady's-thumb (<i>Polygonum persicaria</i>)						Broad-leaved Arrowhead (<i>Sagittaria latifolia</i>)					
						Virginia Knotweed (<i>Polygonum virginianum</i>)						Blue-eyed-grass (<i>Sisyrinchium montanum</i>)					
						<i>Polygonum</i>						Herb. Carrion Flower (<i>Smilax herbacea</i>)					
						<i>Polygonum</i>						Bristly Greenbrier (<i>Smilax hispida</i>)					
						Rough Cinquefoil (<i>Potentilla norvegica</i>)						Nodding Ladies' Tresses (<i>Spiranthes cernua</i>)					
						Rough-fruited Cinquefoil (<i>Potentilla recta</i>)						Rose Twisted-stalk (<i>Streptopus lanceolatus</i>)					
						Common Cinquefoil (<i>Potentilla simplex</i>)						Skunk-cabbage (<i>Symplocarpus foetidus</i>)					
						<i>Potentilla</i>						Purple Trillium (<i>Trillium erectum</i>)					
						Heal-all (<i>Prunella vulgaris</i>)						White Trillium (<i>Trillium grandiflorum</i>)					
						Shinleaf (<i>Pyrola elliptica</i>)						Large-flowered Bellwort (<i>Uvularia grandiflora</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: 300 GSH 2114

Date: May 2, 2012

Surveyors: JPT+TS

Significant Wildlife Habitat Form

AECOM

Study Area:	BLW	JER	(GSH)	Map #:	300-GSH/2114
Date:	2012-05-02			Time Started:	2:00 P.m.
Field Staff:	Tom Skotney, Jess Pfeiffer			Time Finished:	2:20 P.m.
Weather Conditions: overcast 15°C, 20 km/h wind					

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

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

UTMs: _____ Number of nests: _____

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

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

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding Birds
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD, SWT1, SWT2) (FOC, FOM, FOD, SWC, SWM, SWD, BOO1, FEO1)

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

UTMs: _____ Area of standing water delineated on field map: _____

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

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

Area and soil/substrate of shoreline habitat: _____

Type and abundance of cover in open water habitat: _____

Type and abundance of cover in surrounding habitat: _____

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

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

Complete Vernal Pool Habitat Description Form

Snake Hibernacula

Fissured rock/foundation or rock/debris pile present: ☒ No ☐ Yes (if yes, photograph and complete the following)

UTMs: _____ Likelihood to extend below frost line: _____

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

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

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

Seeps and Springs (FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (if yes, photograph and complete the following)

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

NHA Site Investigation - Significant Wildlife Habitat Form

AECOM

Colonial Nesting Bird Breeding Habitat (Bank and Cliff Swallows)

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

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

☒ No

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

UTMs: _____

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

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

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas

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

Shoreline of lake, large river or large wetland present:

☒ No

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

UTMs: _____

Rocky island or peninsula present: _____

Mudflat present: _____

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

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

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

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

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

Large open habitat present: ☒ No

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

UTMs: _____

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

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

Old-growth or Mature Forests, Interior Forest Breeding Birds

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

Mature forest present: ☒ No

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

UTMs: _____

Age of oldest trees: _____

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

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

Photo #	Location or Subject	Photo #	Location or Subject

2009

Time Started: 7:00
Time Finished: 7:00

[illegible]

DD=Distraction NI=Used Nest EV=Eledged Young NE=Eggs NY=Young ES=Eggs/Young

$\Delta B + \text{Observed}$

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

Species of Conservation Concern Habitat and Incidental Wildlife – Goshen

AECOM

ELC	Species	Habitat Description	Habitat Present (Y/N); UTM; description of habitat if present
CUM1, MAM, FOD6, FOD7, FOD9	June – August Green Dragon (<i>Arisaema dracontium</i>) - SC/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:
FEO1, 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>Eriogonum bulbosum</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	Time – summer 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	June – September 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:
FOD6, FOD7, FOD8	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	Early Summer Pileose 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	July-September 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	Swamps and floodplains	Y N UTM: N/O
CUM1, ALO, FET1, SWC	Mid June 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	September 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	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	S3? 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	S3 Slender Blazing Star (<i>Liatris cylindracea</i>) - S3	Species occurs in limestone and dolomite pavement, prairies, open woods, alvars and moist sandy meadows.	Y N UTM:
SBO, SBS, SBT, TPO1, TPS1, TPW1, FOD1, FOD2	S2 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	S2 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:
BL01, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7	S2 Bloom Time – late summer to mid fall Stiff Gentian (<i>Gentiana 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:
TPS1, TPW1, CUW1, RBO, SBO	S3 Bloom Time – mid-March to mid-June 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



ELC	Species	Habitat Description	Habitat Present (Y/N; UTM: description of habitat if present)
TP01, TPS1, TPW1, CUM1	Tall Blazing Star (<i>Liatis 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>Selurus motacilla</i>) - SC	Inhabits mature forests along steeply sloped ravines adjacent to running water. Trees, bushes, exposed roots, cliffs, banks and mossy logs are favoured nesting spots. Riparian woodlands are preferred stopover sites during migration	Y N UTM:
FOD, CUW, CUT	Red-headed Woodpecker (<i>Melanerpes erythrocephalus</i>) - SC	Species inhabits open woodland/ edges (oak savannahs and riparian forest), open, deciduous forest with little understory; fields or pasture lands with scattered large trees; wooded swamps; orchards, small woodlots or forest edges; groves of dead or dying trees; requires cavity trees with at least 40 cm dbh; requires about 4 ha for a territory.	Y N UTM:
-	Short Eared Owl (<i>Asio flammeus</i>) - SC	Assessed as SWH. Record species if found.	not required.
CUT1	Yellow-breasted Chat (<i>Icteria virens</i>) - SC	Inhabits thickets, tall tangles of shrubbery beside streams, ponds; overgrown bushy clearings with deciduous thickets; nests above ground in bush, vines	Y N UTM:
REPTILES			
-	Eastern Ribbonsnake (<i>Thamnophis sauritus</i>) - SC	Assessed as SWH. Record species if found.	not required.
-	Milksnake (<i>Lampropeltis triangulum</i>) - SC	Assessed as SWH. Record species if found.	not required.
-	Snapping Turtle (<i>Chelydra serpentina</i>) - SC	Assessed as SWH. Record species if found.	not required.
INSECTS			
OAO, SA, SWM, SWD	Azure Bluet (<i>Enallagma aspersum</i>) - S3	Species inhabits fishless ponds, lakes and boggy swamps	Y N UTM:
TPS, TPW	Sleepy Duskywing (<i>Erynnis brize</i>) - S1	Occurs in oak/oak-pine scrub, chaparral, barrens, well-drained sandy or shaly soils. Species regularly seen at flowers in oak woods, on the ground, and at mud puddles. 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:
CUM1, CUT1, CUW1	Monarch Butterfly (<i>Danaus plexippus</i>) - SC	Usually seen nectaring or on wet sandy reads. Larvae feeds on New Jersey Tea and adults only likely near where this plant is present	Y N UTM:
TPS, CUW	Mottled Duskywing (<i>Erynnis martialis</i>) - S2	Species inhabits densely wooded riparian areas, dry woods, open woods, fencerows and parks. Usually occurs near Hackberry, the larval foodplant	Y N UTM:
SWT, SWD, SWM, FOM, FOD4-3, TPW, TPS, CUM1	Tawny Emperor (<i>Asterocampa clyten</i>) - S3	This species is restricted to rich, moist, deciduous woods, where its foodplant Toothwort occur	Y N UTM:
FOD5	West Virginia White (<i>Pieris virginianensis</i>) - SC		Y N UTM:

6



ELC

Site: 309-GSH 015

Surveyor(s): SAH

UTMZ: 171

Date: Oct 3/11

UTMZ: 451566

Polygon: ①

Time start: 1046

Time finish: 1813

UTMN: 4797988

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☒ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Aivar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Tree		☐ Bluff		☒ Forest
				☐ 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	WB > MS > AW > EW
2	3	2	MS > AW > Chokeberry
3	4	3	Callio Aster > Jewelweeds > Rib. americ. > Dame's Rocket
4	7-6	3	Garlic Mustard > Geum sp. > Euc. n. obov.

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 6 > 0.5-1m 4 > 1-2m 3 > 2-8m 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:	Deadfall / Logs:
WB 44 MS 30 AW 17	0 < 10 A 10-24 A 25-50 O > 50	0 < 10 R 10-24 R 25-50 R > 50
BA: 23	Standing Snags:	
	0 < 10 R 10-24 R 25-50 R > 50	

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

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth
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Ecotope:	Fresh-Moist Lowland Deciduous Forest	Code:	FOD7
Vegetation Type:	Fresh-Moist Black-Walnut Lowland	Code:	FOD7-4
Inclusion:	Deciduous Forest Type	Code:	WB-MS
Complex:		Code:	/

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	% CF
MS	3	4			7	30
AW	2	2			4	17
WB	6	4			10	40
EW		2			2	9
Total	11	12			23	100
Basal Area (BA)	22	24			46	
Dead						

Soils Ontario and ELC Soils Description

PI/Auger #	wp294 ①	Summary			
Zone	451566	Moisture Regime			
Easting	4797988	Drainage			
Northing	3	Effective Texture (Indicate below)			
Position	SE				
Aspect	3				
Percent	20				
Slope	57				
Length	>120				
Mottles	>120				
Gley	>120				
Water Table	>120				
Carbonates	>120				
Bedrock	>120				
Depth from zero	0	% CF	% CF	% CF	% CF
Texture	SIL				
Depth from zero	72	% CF	% CF	% CF	% CF
Texture	Of				
Depth from zero		% CF	% CF	% CF	% CF
Texture					
Depth from zero		% CF	% CF	% CF	% CF
Texture					
Depth from zero		% CF	% CF	% CF	% CF
Texture					
% Surface Stone/Rock					
Moisture Regime	Mod Moist (4)				
Drainage					

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

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			

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

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☐ Mature	☐ Old Growth
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Ecosite:		Code:
Vegetation Type:		Code:
Inclusion:		Code:
Complex:		Code:

[illegible]

Soils Ontario and ELC Soils Description

Key Metrics	PIV/Auger #			Summary
	UTM			
	Zone			
	Easting			
	Northing			
	Position			Moisture Regime

[illegible]

Depth to...			Effective Texture (indicate below)
Mottles			
Gley			
Water Table			
Carbonates			
Bedrock			

Soil Horizon Description							
1	Depth from zero		% CF		% CF		% CF
	Texture						
2	Depth from zero		% CF		% CF		% CF
	Texture						
3	Depth from zero		% CF		% CF		% CF
	Texture						
4	Depth from zero		% CF		% CF		% CF
	Texture						

% Surface Stone/Rock					
Moisture Regime					
Drainage					

Location: 309 GSH 1015
 Observer: SAM

VASCULAR PLANT CHECKSHEET

Date: Oct. 37/11
 Job Number:

Observer: 547	Job Number:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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[illegible]

Plant Species List

POLYGON: ①

DATE: Oct. 3/11

SURVEYOR(S): SAM

ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

[illegible][illegible]

Goshen ELC GEFU6/SMN15

321-GSH 2100
759-GSH 2100

Goshen

July 20/11

Temp 27°C
Wind: B. 10
Cloud 50% (hazy)
Precip: nil

dug Pond (010)

WP067

WP068

321, 325

drain
WP068

HH012

BARBON LINE



321-GSH 2100/1012 * fence line survey

ELC
Community
Description and
Classification

Site: Gosham CE 345MN/5 Polygon: 0

Surveyors: Date: Time start: finish: 0938h

UTMZ: 17 UTMZ: 1026h

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1			BD > HS > AH > AW
2			Sour Cherry > Apple > Aw > Cho. R. Cherry
3			Red R. 9.5 Berry > Maple-leaved Viburnum > Rubus dog.
4			Pol. 5m lvs > European Red Nightshade > Agr. May > Wild Mint

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 5-10m 1 > 10m

CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

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

Stranding Snags: <10 10-24 25-50 >50

Deadfall / Logs: <10 10-24 25-50 >50

BA: N/A

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

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

Ecosite: Fresh-Holst Sugar Maple Deciduous Forest Code: F06

Vegetation Type: Fresh-Holst Sugar Maple-Haw Wood Code: F06-5

Inclusion: Deciduous Forest + Type Code: /

Complex: / Code: /

Community Profile Diagram/Comments

Notes:

* fence line only

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Total	Rel. Ave.
N/A					
Total					100
Basal Area (BA)					
Dead					

Soils Ontario and ELC Soils Description

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

321-GSH2100/1010
fence line survey

ELC
Community
Description and
Classification

Site: Goshen GE36/SHN15 Polygon: 3
Surveyors: SAH Date: July 20/11 Time start: 0939h finish: 1026h
UTMZ: 17T UTMZ: w p 068

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) p > Much Greater Than; > Greater Than; = About Equal To
1	3	3	Red Maple
2	3	3	Silky Dogwood > Black Elderberry
3	4	3	Red Canary > Tall Nettle > Buttonbush
4	5	3	Jewelweed > Yellow Avens > Wood Nettle

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

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

EA: VIA

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

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth
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Ecosite:	Maple Mineral Acidious Swamp Ecotype	Code: SWD3
Vegetation Type:	Red Maple Mineral Deciduous Swamp Type	Code: SWD3-1
Inclusion:		Code:
Complex:		Code:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Ave.
N/A						
- fence line only						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics		PH/Auger #	N/A (fence line only)				Summary
Depth to...	Zone	Easting	North	Position	Aspect	Percent	Moisture Regime
	Slope	Easting	North	Position	Aspect	Percent	
	Slope	Easting	North	Position	Aspect	Percent	
	Slope	Easting	North	Position	Aspect	Percent	
	Slope	Easting	North	Position	Aspect	Percent	
Depth to...	Mottles	Easting	North	Position	Aspect	Percent	Drainage
	Gley	Easting	North	Position	Aspect	Percent	
	Water Table	Easting	North	Position	Aspect	Percent	
	Carbonates	Easting	North	Position	Aspect	Percent	
	Bedrock	Easting	North	Position	Aspect	Percent	
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	% CF
	Texture	% CF	% CF	% CF	% CF	% CF	
	2	Depth from zero	% CF	% CF	% CF	% CF	
	Texture	% CF	% CF	% CF	% CF	% CF	
	3	Depth from zero	% CF	% CF	% CF	% CF	
Soil Horizon Description	Texture	% CF	% CF	% CF	% CF	% CF	% CF
	4	Depth from zero	% CF	% CF	% CF	% CF	
	Texture	% CF	% CF	% CF	% CF	% CF	
	% Surface Stone/Rock	% CF	% CF	% CF	% CF	% CF	
	Moisture Regime	% CF	% CF	% CF	% CF	% CF	
Drainage							

ELC

SITE:

Goshen GE36/SM N15

POLYGON:

②

Plant Species List

DATE:

July 20/11

SURVEYOR(S):

SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

[illegible][illegible]

Date: July 20/11

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

SITE LOCATIONS

CONIFERS	1	2	3	4	5	6	TREES and SHRUBS	1	2	3	4	5	6	GRAMINOIDS	1	2	3	4	5	6
Abies balsamea							+ Rosa multiflora							Agrostis gigantea						
Juniperus communis							Rosa							Agrostis stolonifera						
Juniperus virginiana							Rubus allegheniensis			X				Agropyron repens						
Larix laricina							Rubus idaeus			X				Alopecurus						
Picea abies							Rubus occidentalis							Bromus inermis				X		
Picea glauca			X				Rubus odoratus							Calamagrostis canadensis						
Picea mariana			X				Rubus pubescens							Carex arctata						
Picea strobus							Salix alba				X			Carex aurea						
Picea sylvatica							Salix amygdaloides							Carex bebbii						
Thuja occidentalis							Salix bebbiana							Carex blanda						
Thuja canadensis							+ Salix discolor				X			Carex gracillima						
Pinus blyra			X				Salix microphtala				X			Carex granularis						
							Salix nigra				X			Carex hystericina						
							Salix lucida							Carex pennsylvanica						
							Salix petiolaris							Carex radiata						
TREES and SHRUBS							+ Salix purpurea							Carex retrorsa						
Acer negundo							Salix x rubens							Carex stipata						
Acer rubrum				X			+ Salix							Carex stricta						
Acer saccharinum		X		X			Sambucus canadensis				X			Carex vulpinoidea						
Acer saccharum		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				Carex						
Betula papyrifera		X					Ulmus							Carex						
Carpinus caroliniana							Vaccinium							Carex						
Carya cordiformis							Viburnum lentago							Carex						
Celastrus scandens							Viburnum opulus							Cyperus						
Cornus alternifolia							Viburnum acerifolium				X			Cyperus						
Cornus amomum			X				Vitis riparia				X		X	Dactylis glomerata				X		
Cornus rugosa							Hammamelis							Danthonia spicata						
Cornus stolonifera							Virginia			X				Echinochloa crus-galli						
Corylus cornuta														Elaecharis acutirostris						
Crataegus monogyna														Elaecharis						
Crataegus punctata														Elymus virginicus						
Crataegus sp.														Elymus						
Crataegus														Festuca arundinacea						
Diervilla lonicera														Glyceria striata						
Fagus grandifolia														Glyceria						
Fraxinus americana		X		X										Juncus dudleyi						
Fraxinus nigra							FERNS							Juncus effusus						
Fraxinus pennsylvanica							Adiantum pedatum							Juncus tenuis						
Ilex verticillata							Asplenium filix-femina							Juncus						
Juglans cinerea							Bolax chinensis							Juncus						
Juglans nigra							Bolax chinensis virginiana							Leersia oryzoides						
Lonicera macrowi							Cyatodea bulbifera							Muhlenbergia						
Lonicera tatarica							Dryopteris carthusiana							Oryzopsis asperifolia						
Lonicera							Dryopteris cristata							Panicum						
Mahoe panicula		X					Dryopteris marginalis							Panicum						
Ostrya virginiana							Equisetum							Phalaris arundinacea				X	X	
Parthenocissus litorata							Equisetum arvense							Phalaris pratensis						
Populus balsamifera							Equisetum hyemale							Phalaris australis						
Populus grandidentata							Equisetum variegatum							Poa compressa						
Populus tremuloides							Equisetum							Poa pratensis						
Populus deltoides					X		Gymnocarpium dryopteris							Poa						
Prunus pennsylvanica							Lycopodium digitatum							Scirpus atrovirens						
Prunus serotina							Lycopodium obscurum							Scirpus cyperinus						
Prunus virginiana			X				Lycopodium							Scirpus validus					X	
Prunus Cerasus			X				Lycopodium							Scirpus						
Quercus macrocarpa							Matricaria struthiopteris							Scirpus						
Quercus rubra							Oenothera biennis							Setaria						
Quercus							Oenothera biennis							Sorghastrum						
Rhamnus cathartica			X				Oenothera rugosa							Typus angustifolia						
Rhus radicans			X				Polypodium scolopendroides							Typus latifolia					X	
Rhus typhina							Psidium aquilinum							Typus Xglauca						
Ribes americanum							Thelypteris palustris													
Ribes cynosbati																				
Ribes x rubrum																				
Robinia pseudo-acacia																				
Cephalanthus occidentalis				X																

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

September 1, 2011

100 Meters

0 25

— Roads

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

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

34

490

w_{p+30}
 p_{p+30}

GSH.F012

102821-8-7

2018/15

6942163

Ans = Yes

65134155)

GSH-2034

Polygon Description

Polygon Description

Stand Description

Stand Description

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

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

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

Community Profile Diagram/Comments

Community Profile Diagram/Comments

Notes:

1

Soils Ontario and ELC Soils Description

Soils Ontario and ELC Soils Description

Community description/form: s/0420041

ELC Community Description and Classification

Site: 32 LGS 2100 Polygon: (3) Complex

Surveyor(s): SAN Date: 04/5/11 Time start: 1340 finish: 1330

UTMZ: 17T UTMZ: 453315 UTMN: 4794566

Polygon Description

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

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3-4	M5 >> Ag >> MR
2	3	3	M5 >> Ag >> Gw
3	4-3	2-3	Buttton bush > Jewelweed > Rameled Aster > String Nettle
4	5-6	2	False Nettle >> Sensitive Fern > Blows romma > Marsh

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 10% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition: Size Class Analysis: Standing Snags: Deadfall / Logs:

BA: 24	MS 58-4625-Ew17	R < 10	0	10-24	A	25-50	A	> 50
		R < 10	0	10-24	R	25-50	R	> 50
		0 < 10	0	10-24	A	25-50	R	> 50

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

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

Ecosite:	Maple Mineral Deciduous Swamp Ecotype	Code:	SWD3
Vegetation Type:	Silver Maple Mineral Deciduous Swamp Type	Code:	SWD3-2
Inclusion:	This SWD3-2 is a complex of	Code:	
Complex:	in clusters with in polygon 2 - R065	Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Pitch Factor	2
15	9	5				
2	2	2				
3	3	3				
AG						
Total						
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

PIV/Auger #	wp 308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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VASCULAR PLANT CHECKSHEET

Location: 321-GSH2100

Date: Oct. 5/11

Observer: SAM

Job Number:

DICTYOT HERBS																	MONOCOT HERBS																
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6										
<i>Chilisa melleola</i>						<i>Erigeron annuus</i>						<i>Plantago lanceolata</i>						<i>Alisma plantago-aquatica</i>															
<i>Isaea pachypoda</i>						<i>Erigeron philadelphicus</i>						<i>Plantago major</i>						<i>Allium tricoccum</i>															
<i>Isaea rubra</i>						<i>Erigeron strigosus</i>						<i>Plantago rugelii</i>						<i>Allium</i>															
<i>Agalinus</i>						<i>Erythronium americanum</i>						<i>Podophyllum peltatum</i>						<i>Arisaema triphyllum</i>															
<i>Agrimonia gryposepala</i>						<i>Eupatorium maculatum</i>						<i>Polygonum</i>						<i>Asparagus officinalis</i>															
<i>Alliaria petiolata</i>						<i>Eupatorium perfoliatum</i>						<i>Polygonum</i>						<i>Cela palustris</i>															
<i>Amaranthus retrofractus</i>						<i>Eupatorium rugosum</i>						<i>Polygonum</i>						<i>Cirsium boreale</i>															
<i>Ambrosia artemisiifolia</i>						<i>Euphorbia</i>						<i>Polygonum lapathifolium</i>						<i>Composita majus</i>															
<i>Amelanchier canadensis</i>						<i>Eutima graminifolia</i>						<i>Polygonum persicaria</i>						<i>Cypripedium pubescens</i>															
<i>Anaphalis margaritacea</i>						<i>Fraxinus virginiana</i>						<i>Potamogeton</i>						<i>Equisetum arvense</i>															
<i>Anemone</i>						<i>Fraxinus vesca</i>						<i>Potamogeton</i>						<i>Equisetum laevigatum</i>															
<i>Anemone canadensis</i>						<i>Galeopsis tetrahit</i>						<i>Potamogeton</i>						<i>Equisetum americanum</i>															
<i>Anemone virginiana</i>						<i>Gallium</i>						<i>Potamogeton</i>						<i>Hemerocallis flava</i>															
<i>Andropogon scoparius</i>						<i>Gallium</i>						<i>Potamogeton</i>						<i>Hemerocallis flava</i>															
<i>Apocynum androsaemifolium</i>						<i>Gallium palustre</i>						<i>Potamogeton</i>						<i>Iris versicolor</i>															
<i>Apocynum cannabinum</i>						<i>Gallium triflorum</i>						<i>Potamogeton</i>						<i>Lemna minor</i>															
<i>Aquilegia canadensis</i>						<i>Geranium maculatum</i>						<i>Potamogeton</i>						<i>Lemna triticea</i>															
<i>Aster nudicaulis</i>						<i>Geranium robertianum</i>						<i>Potamogeton</i>						<i>Lilium</i>															
<i>Achillea millefolium</i>						<i>Geum alepense</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster multiflorus</i>						<i>Geum canadense</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Artemisia</i>						<i>Geum</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Asarum canadense</i>						<i>Glechoma hederacea</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Asclepias incarnata</i>						<i>Hepatica acutiloba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Asclepias syriaca</i>						<i>Hesperis matronalis</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster</i>						<i>Hieracium aurantiacum</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster cordifolius</i>						<i>Hieracium cespitosum</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster ericoides</i>						<i>Hieracium</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster lanceolatus</i>						<i>Hydrophyllum virginianum</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster laevis</i>						<i>Hypericum perforatum</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster macrophyllus</i>						<i>Impatiens capensis</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster novae-angliae</i>						<i>Inula helenium</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Aster puniceus</i>						<i>Lactuca</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Barbarea vulgaris</i>						<i>Laportea canadensis</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Bidens cernua</i>						<i>Lapsana communis</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Bidens frondosa</i>						<i>Leonurus cardiaca</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Boraginella cylindrica</i>						<i>Lepidium</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Calla palustris</i>						<i>Linaria vulgaris</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Calypso septem</i>						<i>Limonium officinale</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Cardamine diphylla</i>						<i>Lobelia</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Cardamine</i>						<i>Lobelia inflata</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Cardiophyllum triflorum</i>						<i>Lolium corniculatum</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Cerastium fontanum</i>						<i>Lycopus americanus</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Cerastium demersum</i>						<i>Lycopus</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chelidonium majus</i>						<i>Lychnis viscaria</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium album</i>						<i>Medicago lupulina</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chrysanth. leucanthemum</i>						<i>Medicago sativum</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
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<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
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<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</i>						<i>Milium canadense</i>															
<i>Chenopodium</i>						<i>Melilotus alba</i>						<i>Potamogeton</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				Agropyron repens					
Larix laricina						Rubus idaeus		X				Alopecurus					
Picea abies						Rubus occidentalis						Bromus inermis					
Picea glauca						Rubus odoratus						Calamagrostis canadensis					
Pinus resinosa						Rubus pubescens		X				Carex acutata		X			
Pinus strobus						Salix alba						Carex aurea					
Pinus sylvestris						Salix amygdaloides						Carex bebbii					
Thuja occidentalis						Salix bebbiana						Carex blanda					
Tsuga canadensis						+ Salix discolor						Carex gracillima					
						Salix eriocephala						Carex granularis					
						Salix nigra						Carex heterostachya					
						Salix lucida						Carex pennsylvanica					
						Salix petiolaris						Carex radiata					
TREES and SHRUBS						+ Salix purpurea						Carex retrorsa					
Acer negundo						Salix x rubens						Carex stipitata					
Acer rubrum		X				+ Salix						Carex stricta					
Acer saccharinum		X				Sambucus canadensis			X			Carex vulpinoidea					
Acer saccharum	X					Sambucus racemosa						Carex lupulina				X	
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			Carex					
Betula papyrifera		X				Ulmus						Carex					
Carpinus caroliniana		X				Vaccinium						Carex					
Carya cordiformis						Viburnum lentago			X			Carex					
Celastrus scandens						Viburnum opulus						Cyperus					
Cornus alternifolia						Viburnum acerifolium		X				Cyperus					
Cornus amomum						Vitis riparia						Dactylis glomerata					
Cornus rugosa						Hamamelis						Danthonia spicata					
Cornus stolonifera		X				Hamamelis virginiana			X			Echinochloa crus-galli					
Corylus cornuta						Lindera benzoin			X			Eleocharis erythropoda					
Crataegus monogyna						Carya ovata			X			Eleocharis					
Crataegus punctata						Mitchella repens			X			Elymus virginicus					
Crataegus sp.						Cephaelanthus						Elymus					
Crataegus						decidua			X			Festuca arundinacea					
Diervilla lonicera						Acer freemanii			X			Glyceria striata				X	
Fagus grandifolia		X										Glyceria					

James Kams

Goshen Feature: 321 GSH2100

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



0 30 60 120 Meters

October 28, 2011

- Roads
- Access/Collection Line
- Survey to be Completed
- Turbine Buffer (171.5m)

- ELC Survey Completed
- Turbine Buffer/Feature Intersect
- Property Fabric
- Goshen Wind Energy Centre

ORIGINAL

STATE AS PERVAL

Confirming patchy area & turbine buffer

Access (Accessible)

34

GSH2100

GSH1012

GSH2099





479500

45300

45300

479500

45300

45300

- Legend**
- Property Boundary
 - GE Turbine
 - ELC Completed 2011
 - Natural Feature and ID
 - ELC Polygon Boundary
 - Disturbance Areas
 - Area of Disturbance, plus 10m
 - ANSI
 - Evaluated Wetlands - PSW
 - ABCA Watercourse

station



Basemap from Ontario Ministry of Natural Resources
Orthophotography 2010



Metres
25 50 100
UTM Zone 17N, NAD 83

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Goshen Amphibian Survey

321_GSH2100

April 2012
Project 60153032

AECOM

Figure 1

Page 1 of 2

Trees & Shrubs					Tree & Shrubs					Graminoids				
Conifers					Deciduous					Grasses				
Balsam Fir (<i>Abies balsamea</i>)					White Oak (<i>Quercus alba</i>)					Giant Redtop (<i>Agrostis gigantea</i>)				
Common Juniper (<i>Juniperus communis</i>)					Bur Oak (<i>Quercus macrocarpa</i>)					Redtop (<i>Agrostis stolonifera</i>)				
Eastern Red Cedar (<i>Juniperus virginiana</i>)					Red Oak (<i>Quercus rubra</i>)					Awnless Brome (<i>Bromus inermis</i>)				
Tamarack (<i>Larix laricina</i>)					Alder Buckthorn (<i>Rhamnus alnifolia</i>)					<i>Bromus</i>				
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>)					<i>Elymus</i>				
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>)					<i>Glyceria</i>				
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>)					<i>Muhlenbergia</i>				
					<i>Rosa</i>					Witch-grass (<i>Panicum capillare</i>)				
Deciduous														
Manitoba Maple (<i>Acer negundo</i>)					Com. Blackberry (<i>Rubus allegheniensis</i>)					<i>Panicum</i>				
Black Maple (<i>Acer nigrum</i>)					Wild Red Raspberry (<i>Rubus idaeus</i>)					Reed Canary Grass (<i>Phalaris arundinacea</i>)				
Norway Maple (<i>Acer platanoides</i>)					Black Raspberry (<i>Rubus occidentalis</i>)					Timothy (<i>Phleum pratense</i>)				
Red Maple (<i>Acer rubrum</i>)					Purple-fl. Raspberry (<i>Rubus odoratus</i>)					Common Reed (<i>Phragmites australis</i>)				
Silver Maple (<i>Acer saccharinum</i>)					Dwarf Raspberry (<i>Rubus pubescens</i>)					Canada Blue Grass (<i>Poa compressa</i>)				
Freeman's Maple (<i>Acer X freemanii</i>)					<i>Rubus</i>					Fowl Meadow Grass (<i>Poa palustris</i>)				
Sugar Maple (<i>Acer saccharum</i>)					Peach-leaved Willow (<i>Salix amygdaloides</i>)					Kentucky Bluegrass (<i>Poa pratensis</i>)				
Mountain Maple (<i>Acer spicatum</i>)					Bebb's Willow (<i>Salix bebbiana</i>)					Yellow Foxtail (<i>Setaria pumila</i>)				
Speckled Alder (<i>Alnus incana</i>)					Pussy Willow (<i>Salix discolor</i>)					Green Foxtail (<i>Setaria viridis</i>)				
Downy Serviceberry (<i>Amelanchier arborea</i>)					Missouri Willow (<i>Salix eriocephala</i>)									
Serviceberry (<i>Amelanchier sanguinea</i>)					Sandbar Willow (<i>Salix exigua</i>)									
Yellow Birch (<i>Betula alleghaniensis</i>)					Shining Willow (<i>Salix lucida</i>)									
White Birch (<i>Betula papyrifera</i>)					Black Willow (<i>Salix nigra</i>)									
European Birch (<i>Betula pendula</i>)					Slender Willow (<i>Salix petiolaris</i>)									
Blue Beech (<i>Carpinus caroliniana</i>)					<i>Salix</i>									
Bitternut hickory (<i>Carya cordiformis</i>)					Hybrid Crack Willow (<i>Salix X rubens</i>)									
Shagbark Hickory (<i>Carya ovata</i>)					Black-berried Elder (<i>Sambucus nigra</i>)									
Climbing Bittersweet (<i>Celastrus scandens</i>)					Red-berried Elder (<i>Sambucus racemosa</i>)									
Common Hackberry (<i>Celtis occidentalis</i>)					Buffaloberry (<i>Shepherdia canadensis</i>)									
Buttonbush (<i>Cephalanthus occidentalis</i>)					Eur. Mountain Ash (<i>Vaccinium angustifolium</i>)									
Alt.-leaved Dogwood (<i>Cornus alternifolia</i>)					Narrow Meadow-sweet (<i>Spiraea alba</i>)									
Silky Dogwood (<i>Cornus amomum</i>)					Common Lilac (<i>Syringa vulgaris</i>)									
Bunchberry (<i>Cornus canadensis</i>)					Poison-ivy (<i>Toxicodendron rydbergii</i>)									
Gray dogwood (<i>Cornus racemosa</i>)					Climbing Poison-ivy (<i>Toxicodendron radicans</i>)									
Round-leaved Dogwood (<i>Cornus rugosa</i>)					White Elm (<i>Ulmus americana</i>)									
Red-osier Dogwood (<i>Cornus sericea</i>)					Siberian Elm (<i>Ulmus pumila</i>)									
American Hazel (<i>Corylus americana</i>)					Slippery Elm (<i>Ulmus rubra</i>)									
Beaked Hazel (<i>Corylus cornuta</i>)					Low Blueberry (<i>Vaccinium angustifolium</i>)									
Cockspur Thorn (<i>Crataegus crus-galli</i>)					Maple-leaf Viburnum (<i>Viburnum acerifolium</i>)									
English Hawthorn (<i>Crataegus monogyna</i>)					Hobblebush (<i>Viburnum lantanoides</i>)									
Large-fruited Thorn (<i>Crataegus punctata</i>)					Nannyberry (<i>Viburnum lentago</i>)									
<i>Crataegus</i>					Guelder-Rose (<i>Viburnum opulus</i>)									
<i>Crataegus</i>					Downy Arrow-wood (<i>Vib. rafinesquianum</i>)									
Bush Honeysuckle (<i>Lonicera linearis</i>)					Riverbank Grape (<i>Vitis riparia</i>)									
Russian Olive (<i>Elaeagnus angustifolia</i>)					Am. Prickly-ash (<i>Zanthoxylum americanum</i>)									
Autumn Olive (<i>Elaeagnus umbellata</i>)														
Run. Strawberry-bush (<i>Euonymus obovata</i>)														
American Beech (<i>Fagus grandifolia</i>)														
Glossy Buckthorn (<i>Frangula alnus</i>)														
White Ash (<i>Fraxinus americana</i>)														
Black Ash (<i>Fraxinus nigra</i>)														
Green Ash (<i>Fraxinus pennsylvanica</i>)														
Witch-hazel (<i>Hamamelis virginiana</i>)														
Winterberry (<i>Ilex verticillata</i>)														
Butternut (<i>Juglans cinerea</i>)														
Black Walnut (<i>Juglans nigra</i>)														
Common Privet (<i>Ligustrum vulgare</i>)														
Spicebush (<i>Lindera benzoin</i>)														
Fly Honeysuckle (<i>Lonicera canadensis</i>)														
Glaucous Honeysuckle (<i>Lonicera dioica</i>)														
Morrow's Honeysuckle (<i>Lonicera morrowii</i>)														
Tartarian Honeysuckle (<i>Lonicera tatarica</i>)														
Common Apple (<i>Malus pumila</i>)														
White Mulberry (<i>Morus alba</i>)														
Sweet Gale (<i>Myrica gale</i>)														
Ironwood (<i>Ostrya virginiana</i>)														
Thicket-creeper (<i>Parthenocissus inserta</i>)														
Ninebark (<i>Physocarpus opulifolius</i>)														
Balsam Poplar (<i>Populus balsamifera</i>)														
Eastern Cottonwood (<i>Populus deltoides</i>)														
Large-tooth Aspen (<i>Populus grandidentata</i>)														
Trembling Aspen (<i>Populus tremuloides</i>)														
Sweet Cherry (<i>Prunus avium</i>)														
Pin Cherry (<i>Prunus pensylvanica</i>)														
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 - Occasional (=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: 311 012/2100	1					F006-5	4							
Date: APR 23, 2012	2					SND 3-3 (inclusions)	6							
Surveyors: JK-TS	3					ford GAO								

Plant Species List 2012

Page 2 of 2

Dicot Herbs - Asteraceae					Dicot Herbs					Dicot Herbs				
1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Common Yarrow (<i>Achillea millefolium</i>)					Shepherd's Purse (<i>Capsella bursa-pastoris</i>)					Kidney-leaf Buttercup (<i>Ranunculus abortivus</i>)				
White Snakeroot (<i>Ageratina altissima</i>)					Cutleaf Toothwort (<i>Cardamine concatenata</i>)					Tall Buttercup (<i>Ranunculus acris</i>)				
Com. Ragweed (<i>Ambrosia artemisiifolia</i>)					Toothwort (<i>Cardamine diphylla</i>)					Hooked Buttercup (<i>Ranunculus recurvatus</i>)				
Giant Ragweed (<i>Ambrosia trifida</i>)					Penn. Bitter-cren (<i>Cardamine pensylvanica</i>)					<i>Ranunculus</i>				
Field Pussytoes (<i>Antennaria neglecta</i>)					<i>Cardamine</i>					Sheep Sorrel (<i>Rumex acetosella</i>)				
<i>Artemisia</i>					Blue Cohosh (<i>Caulophyllum thalictroides</i>)					Curly-leaf Dock (<i>Rumex crispus</i>)				
Common Burdock (<i>Arctium minus</i>)					Mouse-ear Chickweed (<i>Cerastium fontanum</i>)					Bitter Dock (<i>Rumex obtusifolius</i>)				
Nodding Beggar-ticks (<i>Bidens cernua</i>)					Turtlehead (<i>Chelone glabra</i>)					Bloodroot (<i>Sanguinaria canadense</i>)				U
Devil's Beggar-ticks (<i>Bidens frondosa</i>)					Spotted Water-hemlock (<i>Cicuta maculata</i>)					Black Snakeroot (<i>Sanicula marilandica</i>)				
Spotted Knapweed (<i>Centaurea biebersteinii</i>)					Water-hemlock (<i>Cicuta virosa</i>)					Bouncing Bet (<i>Saponaria officinalis</i>)				
Brown Knapweed (<i>Centaurea jacea</i>)					Enchanter's Nightshade (<i>Circaea lutetiana</i>)					Marsh Skullcap (<i>Scutellaria galericulata</i>)				
Chicory (<i>Cichorium intybus</i>)					Carolina Spring Beauty (<i>Claytonia caroliniana</i>)					Mad Dog Skullcap (<i>Scutellaria lateriflora</i>)				
Canada Thistle (<i>Cirsium arvense</i>)					Virginia Spring Beauty (<i>Claytonia virginica</i>)					White Camion (<i>Silene latifolia</i>)				
Bull Thistle (<i>Cirsium vulgare</i>)					Virgin's-bower (<i>Clematis virginiana</i>)					Bladder Camion (<i>Silene vulgaris</i>)				
Horseweed (<i>Conyza canadensis</i>)					Field Bindweed (<i>Convolvulus arvensis</i>)					Hemlock Water-parsnip (<i>Sium suave</i>)				
Daisy Fleabane (<i>Erigeron annuus</i>)					Dog-strangling Vine (<i>Cynanchum rossicum</i>)					Bitter Nightshade (<i>Solanum dulcamara</i>)				
Philadelphia Fleabane (<i>Erig. philadelphicus</i>)					Wild Carrot (<i>Daucus carota</i>)					Black Nightshade (<i>Solanum ptychanthum</i>)				
<i>Erigeron</i>					Deptford Pink (<i>Dianthus armeria</i>)					Grassleaf Stitchwort (<i>Stellaria graminea</i>)				
Joe-pye-weed (<i>Eupatorium maculatum</i>)					Squirrel-corn (<i>Dicentra canadensis</i>)					Common Chickweed (<i>Stellaria media</i>)				
Boneset (<i>Eupatorium perfoliatum</i>)					Dutchman's-breeches (<i>Dicentra cucullaria</i>)					Early Meadow-rue (<i>Thalictrum dioicum</i>)				
Large-leaved Aster (<i>Eurybia macrophylla</i>)					Wild Teasel (<i>Dipsacus fullonum</i>)					Tall Meadow-rue (<i>Thalictrum pubescens</i>)				
Flat-top Goldenrod (<i>Euthamia graminifolia</i>)					Wild Cucumber (<i>Echinocystis lobata</i>)					Field Penny-cren (<i>Thlaspi arvense</i>)				
Orange Hawkweed (<i>Hieracium aurantiacum</i>)					Viper's Bugloss (<i>Echium vulgare</i>)					Foamflower (<i>Tiarella cordifolia</i>)				R
Field Hawkweed (<i>Hieracium caespitosum</i>)					Northern Willow-herb (<i>Epilobium ciliatum</i>)					Star-flower (<i>Trientalis borealis</i>)				
<i>Hieracium</i>					Hairy Willow-herb (<i>Epilobium hirsutum</i>)					Red Clover (<i>Trifolium pratense</i>)				
Elecampane (<i>Inula helenium</i>)					Small-fl. Willow-herb (<i>Epilobium parviflorum</i>)					White Clover (<i>Trifolium repens</i>)				
Prickly Lettuce (<i>Lactuca scariola</i>)					<i>Epilobium</i>					<i>Trifolium</i>				
<i>Lactuca</i>					Worm Mustard (<i>Erysimum cheiranthoides</i>)					Stinging Nettle (<i>Urtica dioica</i>)				
Ox-eye Daisy (<i>Leucanthemum vulgare</i>)					<i>Euphorbia</i>					Greater Bladderwort (<i>Utricularia vulgaris</i>)				
Pineapple-weed (<i>Matricaria discoidea</i>)					Hemp Nettle (<i>Galeopsis tetrahit</i>)					Common Mullein (<i>Verbascum thapsus</i>)				
Tall White Lettuce (<i>Prenanthes altissima</i>)					Wild Madder (<i>Galium mollugo</i>)					Blue Vervain (<i>Verbena hastata</i>)				
Black-eyed Susan (<i>Rudbeckia hirta</i>)					Marsh Bedstraw (<i>Galium palustre</i>)					White Vervain (<i>Verbena urticifolia</i>)				
Tall Goldenrod (<i>Solidago altissima</i>)					Sweet-scented Bedstraw (<i>Galium triflorum</i>)					Water Speedwell (<i>Veron. anagallis-aquatica</i>)				
Blue-stem Goldenrod (<i>Solidago caesia</i>)					<i>Galium</i>					Common Speedwell (<i>Veronica officinalis</i>)				
Canada Goldenrod (<i>Solidago canadensis</i>)					Spotted Geranium (<i>Geranium maculatum</i>)					<i>Veronica</i>				
Zig-zag Goldenrod (<i>Solidago flexicaulis</i>)					Herb-robert (<i>Geranium robertianum</i>)					Cow Vetch (<i>Vicia cracca</i>)				
Giant Goldenrod (<i>Solidago gigantea</i>)					Yellow Avens (<i>Geum aleppicum</i>)					<i>Vicia</i>				
Early Goldenrod (<i>Solidago juncea</i>)					White Avens (<i>Geum canadense</i>)				U	Periwinkle (<i>Vinca minor</i>)				
Gray Goldenrod (<i>Solidago nemoralis</i>)					Urban Avens (<i>Geum urbanum</i>)					Dog Violet (<i>Viola conspersa</i>)				U
<i>Solidago</i>					Dame's Rocket (<i>Hesperis matronalis</i>)					Yellow Violet (<i>Viola pubescens</i>)				
Field Sow-thistle (<i>Sonchus arvensis</i>)					Virg. Water-leaf (<i>Hydrophyllum virginianum</i>)				F	Com. Blue Violet (<i>Viola sororia</i>)				
<i>Sonchus</i>					Com. St. John's-wort (<i>Hypericum perforatum</i>)					<i>Viola rostrata</i>				H
Heart-leaf Aster (<i>Symph. cordifolium</i>)					Spotted Jewelweed (<i>Impatiens capensis</i>)					<i>Viola canadensis</i>				K
Heath Aster (<i>Symphotrichum ericoides</i>)					Wood Nettle (<i>Laportea canadensis</i>)									
Tall White Aster (<i>Symph. lanceolatum</i>)					Motherwort (<i>Leonurus cardiaca</i>)									
Calico Aster (<i>Symphotrichum lateriflorum</i>)					Field Peppergrass (<i>Lepidium campestre</i>)									
New England Aster (<i>Symph. novae-angliae</i>)					Eur. Gromwell (<i>Lithospermum officinale</i>)									
Purple-stem Aster (<i>Symph. puniceus</i>)					Butter & Eggs (<i>Linaria vulgaris</i>)									
Common Tansy (<i>Tanacetum vulgare</i>)					Great Lobelia (<i>Lobelia siphilitica</i>)									
Common Dandelion (<i>Taraxacum officinale</i>)				R	<i>Lobelia</i>					Monocot Herbs				
Com. Goatbeard (<i>Tragopogon pratensis</i>)					Cut-leaf Bugleweed (<i>Lycopus americanus</i>)					Water-plantain (<i>Alisma plantago-aquatica</i>)				R
Coltsfoot (<i>Tussilago farfara</i>)					Northern Bugleweed (<i>Lycopus uniflorus</i>)					Wild Leek (<i>Allium tricoccum</i>)				R
					Fringed Loosestrife (<i>Lysimachia ciliata</i>)					Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)				U
					Moneywort (<i>Lysimachia nummularia</i>)					Asparagus (<i>Asparagus officinalis</i>)				
					<i>Lysimachia</i>					Wild Calla (<i>Calla palustris</i>)				
					Purple Loosestrife (<i>Lythrum salicaria</i>)					Bluebead-lily (<i>Clintonia borealis</i>)				
					Black Medick (<i>Medicago lupulina</i>)					Garden Lily-of-the-valley (<i>Convallaria majalis</i>)				
					Alfalfa (<i>Medicago sativa</i>)					Yel. Lady's Slipper (<i>Cypripedium parviflorum</i>)				
					White Sweet-clover (<i>Melilotus alba</i>)					Canada Waterweed (<i>Elodea canadensis</i>)				
					Yellow Sweet-clover (<i>Melilotus officinalis</i>)					Helleborine (<i>Epipactis helleborine</i>)				
					Wild Mint (<i>Mentha arvensis</i>)					Yellow Trout Lily (<i>Erythronium americanum</i>)				D
					Wild Bergamot (<i>Monarda fistulosa</i>)					Blue-flag Iris (<i>Iris versicolor</i>)				
					Small Forget-me-not (<i>Myosotis laxa</i>)					Orange Day Lily (<i>Hemerocallis fulva</i>)				
					Forget-me-not (<i>Myosotis scorpioides</i>)					Lesser Duckweed (<i>Lemna minor</i>)				
					Water-cren (<i>Nasturtium officinale</i>)					Starry Duckweed (<i>Lemna trisulca</i>)				
					Com. Evening-primrose (<i>Oenothera biennis</i>)					Wild Lily-of-the-valley (<i>Maianthemum canadense</i>)				U
					Sweet-cicely (<i>Osmorhiza berterii</i>)					False Solom Seal (<i>Maianthemum racemosum</i>)				
					Yellow Wood-sorrel (<i>Oxalis stricta</i>)					Star False Solom (<i>Maianthemum stellatum</i>)				
					Wild Parsnip (<i>Pastinaca sativa</i>)					True Solom Seal (<i>Polygonatum pubescens</i>)				U
					English Plantain (<i>Plantago lanceolata</i>)					Pickering-weed (<i>Pontederia cordata</i>)				
					Common Plantain (<i>Plantago major</i>)					Curly-leaf Pondweed (<i>Potamogeton crispus</i>)				
					Rugel's Plantain (<i>Plantago rugelii</i>)					Sago Pondweed (<i>Potamogeton pectinatus</i>)				
					May-apple (<i>Podophyllum peltatum</i>)					<i>Potamogeton</i>				
					Pale Smartweed (<i>Polygonum lapathifolium</i>)					<i>Potamogeton</i>				
					Lady's-thumb (<i>Polygonum persicaria</i>)					Broad-leaved Arrowhead (<i>Sagittaria latifolia</i>)				
					Virginia Knotweed (<i>Polygonum virginianum</i>)					Blue-eyed-grass (<i>Sisyrinchium montanum</i>)				
					<i>Polygonum</i>					Herb. Carrion Flower (<i>Smilax herbacea</i>)				
					<i>Polygonum</i>					Bristly Greenbrier (<i>Smilax hispida</i>)				
					Rough Cinquefoil (<i>Potentilla norvegica</i>)					Nodding Ladies' Tresses (<i>Spiranthes cernua</i>)				
					Rough-fruited Cinquefoil (<i>Potentilla recta</i>)					Rose Twisted-stalk (<i>Streptopus lanceolatus</i>)				
					Common Cinquefoil (<i>Potentilla simplex</i>)					Skunk-cabbage (<i>Symplocarpus foetidus</i>)				
					<i>Potentilla</i>					Purple Trillium (<i>Trillium erectum</i>)				R
					Heal-all (<i>Prunella vulgaris</i>)					White Trillium (<i>Trillium grandiflorum</i>)				U
					Shinleaf (<i>Pyrola elliptica</i>)					Large-flowered Bellwort (<i>Uvularia grandiflora</i>)				
					<i>Pyrola virginiana</i>				U	<i>Uvularia</i>				R

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:	32	EST/1012/2100	1	1006-5	4
Date:	Apr 23, 2012		2	SW23-3 (Inchworm)	6
Surveyors:	JPT/S		3	POW	

Significant Wildlife Habitat Form

AECOM

Study Area:	BLW JER (GSH)	Map #:	321-GSH2100/11012
Date:	23/04/2012	Time Started:	2:40
Field Staff:	Tom Sharney Jess Pie HPE	Time Finished:	2:55
Weather Conditions: Cloudy 5°C 45km/h wind			

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) *sticknest #3*

UTMs: 453370 4799519 Number of nests: 1

Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):
Sticknest in crotch of tree, Beech 15-20m high along skidder trail

Description of habitat (note riparian areas if present, evidence of disturbance): *FOD6-5*

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding Birds
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD, SWT1, SWT2) (FOC, FOM, FOD, SWC, SWM, SWD, BOO1, FEO1)

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

UTMs: _____ Area of standing water delineated on field map: _____

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

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

Area and soil/substrate of shoreline habitat: _____

Type and abundance of cover in open water habitat: _____

Type and abundance of cover in surrounding habitat: _____

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

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

Complete Vernal Pool Habitat Description Form

Snake Hibernacula

Fissured rock/foundation or rock/debris pile present: ☐ No ☐ Yes (if yes, photograph and complete the following)

UTMs: _____ Likelihood to extend below frost line: _____

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

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

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

Seeps and Springs (FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☐ No ☐ Yes (if yes, photograph and complete the following)

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

NHA Site Investigation - Significant Wildlife Habitat Form

AECOM

Colonial Nesting Bird Breeding Habitat (Bank and Cliff Swallows)

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

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

☐ No

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

UTMs:

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

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

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas

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

Shoreline of lake, large river or large wetland present:

☐ No

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

UTMs:

Rocky island or peninsula present:

Mudflat present:

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

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

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

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

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

Large open habitat present: ☐ No

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

UTMs:

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

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

Old-growth or Mature Forests, Interior Forest Breeding Birds

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

Mature forest present: ☐ No

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

UTMs:

Age of oldest trees:

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

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

Photo #	Location or Subject	Photo #	Location or Subject
56	Stick nest along trail		

Significant Wildlife Habitat Form

AECOM

Study Area:	BLW	JER	(GSH)	Map #:	321-GSH 2100 / 1012
Date:	23/04/2012			Time Started:	1:10
Field Staff:	Tom Sharney, Jess Piell			Time Finished:	3:50
Weather Conditions: Cloudy, 5°C, 40km/h wind					

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

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

UTMs: 453278 4799535 Number of nests: 1+2

Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):
stick nest in crotch of beech tree, approx. 15-20m high

Description of habitat (note riparian areas if present, evidence of disturbance): FOD6-5 approx 20m from edge

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding Birds
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SWD, SWT1, SWT2) (FOC, FOM, FOD, SWC, SWM, SWD, BOO1, FEO1)

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

UTMs: See amphibian form ☒ Area of standing water delineated on field map

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

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

Area and soil/substrate of shoreline habitat:

Type and abundance of cover in open water habitat:

Type and abundance of cover in surrounding habitat:

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

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

Complete Vernal Pool Habitat Description Form

Snake Hibernacula

Fissured rock/foundation or rock/debris pile present: ☐ No ☒ Yes (if yes, photograph and complete the following)

UTMs: See Hibernacula Form Likelihood to extend below frost line:

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

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

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

Seeps and Springs (FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (if yes, photograph and complete the following)

UTMs: Description (indicator species, etc):

NHA Site Investigation - Significant Wildlife Habitat Form

AECOM

Colonial Nesting Bird Breeding Habitat (Bank and Cliff Swallows)

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

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

☒ No

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

UTMs: _____

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

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

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas

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

Shoreline of lake, large river or large wetland present:

☒ No

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

UTMs: _____

Rocky island or peninsula present: _____

Mudflat present: _____

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

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

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

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

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

Large open habitat present: ☒ No

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

UTMs: _____

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

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

Old-growth or Mature Forests, Interior Forest Breeding Birds

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

Mature forest present: ☒ No

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

UTMs: _____

Age of oldest trees: _____

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

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

Photo #	Location or Subject	Photo #	Location or Subject
5b	Shrubland		

01:

Time Started: 1:10
Time Finished: 3:50

Observed Species List

[illegible]

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)

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	Species	Habitat Description	Habitat Present (Y/N; UTM; description of habitat if present)
PLANTS			
FOD7	American Gromwell (<i>Lithospermum latifolium</i>) - S3 <u>Bloom Time - Spring</u>	Shaded river banks, wooded floodplains. River floodplains, woods and edges of woods.	Y (N) UTM: N/A
ALO, TPO	Muehlenberg's astomum moss (<i>Astomum muehlenbergianum</i>) - S2 <u>Bloom Time - Spring</u>	Thin soil over level outcrop ledges and on soil under grasses in open prairie	Y (N) UTM:
FOM1, FOM2, CUP3	Autumn Coral-root (<i>Coralorhiza odoriflora</i>) - S2 <u>Bloom Time - summer to fall</u>	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 <u>Bloom Time - April - June</u>	Species occurs in dry to moist deciduous thickets and woods	Y (N) UTM: N/A
SWC1, SWC3, SWC4, SWM1, SWM2, SWM4, SWM5, SWM6	Chinese Hemlock Parsley (<i>Conioselinum chinense</i>) - S2 <u>Bloom Time - summer to fall</u>	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 <u>Bloom Time - late summer</u>	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/A
ALT1, FOD7	Eastern Green-violet (<i>Hybanthus concolor</i>) - S2 <u>Bloom Time - mid March to August</u>	Occurs in rich, wet-mesic floodplain forests as well as mesic forests over limestone. Includes floodplains and river banks.	Y (N) UTM: N/A
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: N/A
TPO2, TPS2, TPW2,	Giant Ironweed (<i>Vernonia gigantea</i>) - S1? <u>Bloom Time -</u>	Found in mesic prairies, thickets, moist woods, roadsides and grassy meadows	Y (N) UTM: N/A