

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Woodland Vole (<i>Microtus pinetorum</i>)-SC	The Woodland Vole inhabits mature deciduous forests where it can burrow into loose sandy soils and deep humus. Other habitats also include grasslands, meadows, and orchards	FOD	Y (N) UTM:

REPTILES

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Eastern Ribbonsnake (<i>Thamnophis sauritus</i>) - SC	Assessed as SWH. Record species if found.	MAM, MAS	not required.
Milksnake (<i>Lampropeltis triangulum</i>) -SC	Assessed as SWH. Record species if found.	CUM, CUT	not required.
Northern Map Turtle (<i>Graptemys geographica</i>) -SC	Large water bodies with soft bottoms & aquatic veg; basks on logs, rocks, beaches, grassy edges; may nest at some distance from water; aquatic corridors (e.g. stream) required for movement.	OAD, SA	Y (N) UTM:

INSECTS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Azure Bluet (<i>Enallagma aspersum</i>)- S3	Found in fishless ponds and other small water bodies. Distinctive Features: Male – Large Blue eyespot and mostly black dorsal surface on abdomen with a blue tip; Females: Green eyespots and almost all black dorsal surface and black tip. Similar Species: Common Blue Damselfly – has more blue than black on abdomen.	OAD	Y (N) UTM:
Blue-ringed Dancer (<i>Argia sedula</i>) – S2	Found in streams and rivers of small to medium size and where there is dense herbaceous vegetation along the banks or shores.		Y (N) UTM:
Dusky Dancer (<i>Argia translate</i>) –S3	Inhabits small to medium, slow flowing sandy or rocky streams or large rivers in quite open areas or with wooded banks.	OAD, SA, SWM, SWD	Y (N) UTM:

BIRDS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Bald Eagle (<i>Haliaeetus leucocephalus</i>)-SC	Assessed as SWH. Record species if found.	-	not required.
Hooded Warbler (<i>Wilsonia Citrina</i>) - SC	An area-sensitive species requiring large tracts of mature, closed canopy, deciduous forests. They generally nest above ground and prefer forests with tall trees that are along stream bottoms or at ravine edges	-	Y (N) UTM:
Louisiana Waterthrush (<i>Seiurus motacilla</i>) -SC	<u>Mature forests</u> 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.	FOD, FOM	Y (N) UTM:

Plant Species List
2012

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-cress (<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>)					Blister 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>Saniculo 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 luteidana</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 Campton (<i>Silene latifolia</i>)				
Bull Thistle (<i>Cirsium vulgare</i>)					Virgin's-bower (<i>Clematis virginiana</i>)					Bladder Campton (<i>Silene vulgaris</i>)				
Horseweed (<i>Coryza canadensis</i>)					Field Bindweed (<i>Convolvulus arvensis</i>)					Hemlock Water-parsnip (<i>Sium suave</i>)				
Philly Fleabane (<i>Erigeron annuus</i>)					Dog-strangling Vine (<i>Cynanchum rossicum</i>)					Bitter Nightshade (<i>Solanum dulcamara</i>)				
Philadelphia Fleabane (<i>Erig. philadelphicus</i>)	2	1			Wild Carrot (<i>Daucus carota</i>)			4		Black Nightshade (<i>Solanum pycnanthum</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 fulvum</i>)			1		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>)				
Eleocharis (<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 discolor</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>)	2	2			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>					Dame's Rocket (<i>Hesperis matronalis</i>)					Yellow Violet (<i>Viola pubescens</i>)				
Field Sow-thistle (<i>Sonchus oleraceus</i>)					Virg. Water-leaf (<i>Hydrophyllum virginianum</i>)					Com. Blue Violet (<i>Viola sororia</i>)				2
<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>)					<i>Orchidaceae</i>				
Heath Aster (<i>Symph. ericoides</i>)					Wood Nettle (<i>Laportea canadensis</i>)					<i>Fragaria</i>				
Tall White Aster (<i>Symph. lanceolatum</i>)					Motherwort (<i>Leonurus cardifolia</i>)									
Calico Aster (<i>Symph. lateriflorum</i>)	2				Field Peppercorn (<i>Lepidium campestre</i>)									
New England Aster (<i>Symph. novae-angliae</i>)					Eur. Gromwell (<i>Lithospermum officinale</i>)									
Purple-stem Aster (<i>Symph. punicus</i>)	1				Butter & Eggs (<i>Linaria vulgaris</i>)									
Common Tansy (<i>Tanacetum vulgare</i>)					Great Lobelia (<i>Lobelia siphilitica</i>)									
Common Dandelion (<i>Taraxacum officinale</i>)	2	1			<i>Lobelia</i>									
Com. Goatsbeard (<i>Tragopogon pratensis</i>)					Cut-leaf Bugleweed (<i>Lycopus americanus</i>)					Monocot Herbs				
Coltsfoot (<i>Tussilago farfara</i>)					Northern Bugleweed (<i>Lycopus uniflorus</i>)					Water-potain (<i>Allisma plantago-aquatica</i>)				
					Fringed Loosetrife (<i>Lysimachia ciliata</i>)					Wild Leek (<i>Allium tricoccum</i>)				
					Moneywort (<i>Lysimachia nummularia</i>)					Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)				1
					<i>Lysimachia</i>					Asparagus (<i>Asparagus officinalis</i>)				
					Purple Loosetrife (<i>Lythrum salicaria</i>)					Wild Calla (<i>Calla palustris</i>)				
					Black Medick (<i>Medicago lupulina</i>)					Bluebead-lily (<i>Clintonia borealis</i>)				
					Alfalfa (<i>Medicago sativa</i>)					Garden Lily-of-the-valley (<i>Convallaria majalis</i>)				2
					White Sweet-clover (<i>Melilotus alba</i>)					Yel. Lady's Slipper (<i>Cypripedium parviflorum</i>)				
					Yellow Sweet-clover (<i>Melilotus officinalis</i>)					Canada Waterweed (<i>Elodea canadensis</i>)				
					Wild Mint (<i>Mentha arvensis</i>)					Helleborine (<i>Epipactis helleborine</i>)				
					Wild Bergamot (<i>Monarda fistulosa</i>)					Yellow Trout Lily (<i>Erythronium americanum</i>)				
					Small Forget-me-not (<i>Myosotis laxa</i>)					Blue-flag Iris (<i>Iris versicolor</i>)				
					Forget-me-not (<i>Myosotis scorpioides</i>)					Orange Day Lily (<i>Hemerocallis fulva</i>)				
					Water-cress (<i>Nasturtium officinale</i>)					Lesser Duckweed (<i>Lemna minor</i>)				
					Com. Evening-primrose (<i>Oenothera biennis</i>)					Starry Duckweed (<i>Lemna trisulca</i>)				
					Sweet-cicely (<i>Osmorhiza berterii</i>)					Wild Lily-of-the-valley (<i>Maianthemum canadense</i>)				
					Yellow Wood-sorrel (<i>Oxalis stricta</i>)					False Solom Seal (<i>Malantherum racemosum</i>)				
					Wild Parsnip (<i>Pastinaca sativa</i>)					Star False Solom (<i>Malantherum stellatum</i>)				
					English Plantain (<i>Plantago lanceolata</i>)					True Solomon Seal (<i>Polygonatum pubescens</i>)				
					Common Plantain (<i>Plantago major</i>)					Pickering-weed (<i>Pontederia cordata</i>)				
					Rugel's Plantain (<i>Plantago rugelii</i>)					Curly-leaf Pondweed (<i>Potamogeton crispus</i>)				
					May-apple (<i>Podophyllum peltatum</i>)					Sago Pondweed (<i>Potamogeton pectinatus</i>)				
					Pale Smartweed (<i>Polygonum isopachyllum</i>)					<i>Potamogeton</i>				
					Lady's-thumb (<i>Polygonum persicaria</i>)					<i>Potamogeton</i>				
					Virginia Knotweed (<i>Polygonum virginianum</i>)					Broad-leaved Arrowhead (<i>Sagittaria latifolia</i>)				
					<i>Polygonum</i>					Blue-eyed-grass (<i>Sisyrinchium montanum</i>)				
					Rough Cinquefoil (<i>Potentilla norvegica</i>)					Herb. Canton Flower (<i>Smilax herbacea</i>)				
					Rough-fruited Cinquefoil (<i>Potentilla recta</i>)					Bristly Greenbrier (<i>Smilax hispida</i>)				
					Common Cinquefoil (<i>Potentilla simplex</i>)					Nodding Ladies' Tresses (<i>Spiranthes cernua</i>)				
					<i>Potentilla</i>					Rose Twisted-stalk (<i>Streptopus lanceolatus</i>)				
					Heal-all (<i>Prunella vulgaris</i>)					Skunk-cabbage (<i>Symplocarpus foetidus</i>)				
					Shinleaf (<i>Pyrola elliptica</i>)					Purple Trillium (<i>Trillium erectum</i>)				
										White Trillium (<i>Trillium grandiflorum</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: 117-5ER34243496 CUM1-3
 Date: May 17, 2012
 Surveyors: Mark A.S.

Charlotte M

Significant Wildlife Habitat Form

AECOM

Study Area:	BLW <u>JER</u> GSH	Map #:	117-JER3424, 3426
Date:	May 17, 2012	Time Started:	16:00
Field Staff:	Charlotte M. MacLeod	Time Finished:	17:15
Weather Conditions: 16°C, sunny, cloud cover 50%, wind 2			

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)
 UTM: _____ 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)
 UTM: _____ 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)
 UTM: _____ 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)
 UTM: _____ 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
GEDC 0647	garbage pile		
GEDC 0648-	CUM 2		
0649			
GEDC 0651-0652	CUP 2-3		

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Study Area: Jericho

Field Staff: Charlotte Mark D'A

Time Started: 16:00

Date (yyyy-mm-dd): 2012-05-17

Feature No.: 117-JER3424, 3426

Time Finished: 17:15

Observed Species List

Species Code	UTM	EV	Notes	Species Code	UTM	EV	Notes
EAKI		OB	eastern Kingbird				
TUVU		OB	turkey vulture				
RBCR		OB	rose-breasted grosbeak				
NOCA		VO	Northern cardinal				
GRCA		VO	gray catbird				
NDFL		VO	northern flicker				
RWBL		VO	red-winged blackbird				

Note: Evidence Codes (EV) Breeding Bird (Possible) SH=Suitable Habitat, SM=Singling 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=Food/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)

PLANTS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Muehlenberg's Astomum Moss (<i>Astomum muehlenbergianum</i>) - S2	Thin soil over level outcrop ledges and on soil under grasses in open prairie.	ALO, TPO	Y <input checked="" type="radio"/> UTM:
Carey's Sedge (<i>Carex careyana</i>) - S2 Bloom Time - May and June	Occurs in rich deciduous woods, often on floodplains and slopes and mesic to dry-mesic hardwood forests.	FOD6, FOD7, FOD8, SWD	Y <input checked="" type="radio"/> UTM:
Chinese Hemlock Parsley (<i>Conioselinum chinense</i>) - S2 Bloom Time - summer to fall	Swampy places with deciduous trees, white cedars, tamarack; springy river banks, creek borders, wet borders of streams & rivers. Also calcareous seepage slopes.	SWC1, SWC3, SWC4, SWM1, SWM2, SWM4, SWM5, SWM6	Y <input checked="" type="radio"/> UTM:
Cream Violet (<i>Viola striata</i>) - S3 Bloom Time - March-June	Inhabits rich floodplain forest and low, wet woods.	FOD6, FOD7, FOD8, SWM, SWD	Y <input checked="" type="radio"/> UTM:
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.	ALT1, FOD7	Y <input checked="" type="radio"/> UTM:
Gray-headed Prairie Coneflower (<i>Ratibida pinnata</i>) - S3 Bloom Time - early June to end of November	Found in prairies and dry, sandy, open ground.	TPO, <input checked="" type="radio"/> CUM1	Y <input checked="" type="radio"/> UTM: none observed
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.	FOD6, FOD7, FOD8	Y <input checked="" type="radio"/> UTM:
Harbinger-of-spring (<i>Eriogonum bulbosum</i>) - S3 Bloom Time - early to late April	Occurs in rich, moist deciduous woods, especially on floodplains.	FOD6, FOD7, FOD8, FOD9	Y <input checked="" type="radio"/> UTM:
Small Skullcap (<i>Scutellaria parvula</i>) - S3 Bloom Time - late Spring to early Summer	Occurs on open, rocky ground and prairies.	ALO, TPO	Y <input checked="" type="radio"/> UTM:
Longleaf Dropseed (<i>Sporobolus asper</i>) - S1S2	Dry prairies, dry, sandy meadows and shores, roadsides and railway tracks.		Y <input checked="" type="radio"/> UTM:
Mead's Sedge (<i>Carex meadli</i>) - S2 Bloom Time - late spring to early summer	Occurs in prairies and moist or dry open areas.	TPO, <input checked="" type="radio"/> CUM1	Y <input checked="" type="radio"/> UTM: N/A

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Ovate Beak Grass –S1 <u>Bloom Time</u> - mid Summer	prefers riparian woodlands; floodplain swamps and river banks.	FOD6, FOD7, FOD9, SWD	Y <input checked="" type="radio"/> UTM:
Pawpaw (<i>Asimina triloba</i>) –S3 <u>Bloom Time</u> – March-May	Occurs in moist deciduous woods and stream banks.	FOD6, FOD7, FOD9	Y <input checked="" type="radio"/> UTM:
Riddell's Goldenrod (<i>Oligoneuron riddellii</i>)-SC	Occurs in wet, marshy ground and old fields, prairies; favours railway tracks and right-of-ways.	ALO, TPO, <input checked="" type="radio"/> CUM1	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N UTM: <i>N/O</i>
Schumard's Oak (<i>Quercus schumardii</i>) –SC	Species inhabits mesic and mesic -hydric sites on clay and clay-loam soils with poor drainage.	SWD	Y <input checked="" type="radio"/> UTM:
Southern Tickseed (<i>Bidens coronata</i>)-S2	Inhabits dry to moist sandy fields and sandy openings in prairies.	TPO, <input checked="" type="radio"/> CUM1	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N UTM: <i>N/O</i>
Stiff Gentian (<i>Gentiana quinquefolia</i>) - S2 <u>Bloom Time</u> – late summer to mid fall	Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, bluffs and wooded hillsides.	BLO1, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7	Y <input checked="" type="radio"/> UTM:
Stiff Goldenrod (<i>Solidago rigida</i>) –S3 <u>Bloom Time</u> - early June to end of November	Occurs on dry open ground, particularly in prairie remnants; along roadsides and railway, and waste places.	TPO1, <input checked="" type="radio"/> CUM1	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N UTM: <i>N/O</i>
Tail Tickseed (<i>Coreopsis tripteris</i>)-S2 <u>Bloom Time</u> -late summer to early fall.	Occurs in prairies and open woods, and thickets.	TPO, TPS, TPW, FOD1, FOD2, FOD3, FOD4, FOD5, CUT1	Y <input checked="" type="radio"/> UTM:
Tuberous Indian Plantain (<i>Arnoglossum plantagineum</i>) - S3 <u>Blooms</u> –mid-March - mid-June	Occurs mainly in flat, sandy areas of the Bruce Peninsula. Fens, wet meadows, and calcareous river flats.	FEO, FES, FET, MAM2, MAM3	Y <input checked="" type="radio"/> UTM:
Winged –Loosestrife (<i>Lythrum alatum</i>)-S3 <u>Bloom Time</u> - mid to late summer	found in prairies, meadows, open woods, thickets and wet disturbed areas.	TPO, CUM1, FOM, FOD, <input checked="" type="radio"/> CUM1, CUT1, MAM2	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N UTM: <i>N/O</i>

MAMMALS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Little Brown Bat (<i>Myotis lucifugus</i>)-SC	Roosts in caves, quarries, tunnels, hollow trees or buildings; maternity sites in attics and bams; feeds primarily in wetlands, forest edges.	FOD	Y <input checked="" type="radio"/> UTM:
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)-SC	Hibernates in mines or caves; roosts in houses, man-made structures but prefers hollow trees or under loose bark; hunts within forests, below canopy	FOD	Y <input checked="" type="radio"/> UTM:
Tri-colored Bat (<i>Perimyotis subflavus</i>)-SC	Open woods near water; roosts in trees, cliff crevices, buildings or caves; hibernates in damp, draft-free, warm caves, mines or rock crevices.	FOD	Y <input checked="" type="radio"/> UTM:
Woodland Voie (<i>Microtus pinetorum</i>)-SC	Mature deciduous forest in the Carolinian forest zone, with loose sandy soil and deep humus; grasslands, meadows and orchards with groundcover of duff or grass	FOD	Y <input checked="" type="radio"/> UTM:

REPTILES

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Eastern Ribbonsnake (<i>Thamnophis sauritus</i>) - SC	Assessed as SWH. Record species if found.	MAM, MAS	not required.
Milksnake (<i>Lampropeltis triangulum</i>) -SC	Assessed as SWH. Record species if found.	CUM, CUT	not required.
Northern Map Turtle (<i>Graptemys geographica</i>) - SC	Large water bodies with soft bottoms & aquatic veg; basks on logs, rocks, beaches; may nest at some distance from water; aquatic corridors (e.g. stream) required for movement.	OAO, SA	Y <input checked="" type="radio"/> UTM:

INSECTS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Dusky Dancer (<i>Argia translate</i>) –S3	inhabits small to medium, slow flowing sandy or rocky streams or large rivers in quite open areas or with wooded banks.	OAO, SA	Y <input checked="" type="radio"/> UTM:

BIRDS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Bald Eagle (<i>Haliaeetus leucocephalus</i>)-SC	Assessed as SWH. Record species if found.	-	not required.
Louisiana Waterthrush (<i>Selurus motacilla</i>) -SC	<u>Mature forests</u> along steeply sloped ravines adjacent to running water. Trees, bushes, exposed roots, cliffs, banks and mossy logs are favoured nesting spots. <u>Riparian woodlands</u> are preferred stopover sites during migration.	FOD, FOM	Y <input checked="" type="radio"/> UTM:

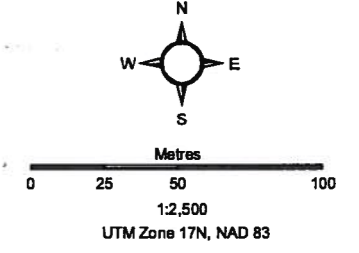
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Date Saved: 5/8/2012 3:18:03 PM



- Legend**
- Turbine Layout
 - Access Road
 - - - Collection Line
 - Property Boundary
 - Natural Feature and ID
 - ELC Polygon Boundary
 - Valley Land
 - Area of Investigation
 - ANSI
 - Evaluated Wetlands - PSW
 - Watercourse



Basemapping from Ontario Ministry of Natural Resources
Orthophotography: 2010
Turbine Layout: April 9, 2012



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Jericho ELC Survey

118_JER1658/JER1693

May 2012
Project 60155032

AECOM

Figure 1

pic # 066

ELC Community Description and Classification	Map #: 118 JCR 1658/1679	Polygon: SW2-2	
	Surveyor(s): SKM, SPJ	Date: 21-05-2012	Time start: 11:15
	UTMZ: 424496	UTMN: 4771182	Time finish: 1:45

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 checked="" 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
Site	<input type="checkbox"/> Acidic Bedrk	<input type="checkbox"/> Terrace	<input type="checkbox"/> Graminoid	<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 type="checkbox"/> Shallow Water	<input type="checkbox"/> Carb. Bedrk	<input checked="" type="checkbox"/> Tableland	<input type="checkbox"/> Lichen	<input checked="" type="checkbox"/> Swamp
<input checked="" type="checkbox"/> Surficial Dep.		<input type="checkbox"/> Roll. Upland	<input type="checkbox"/> Bryophyte	<input type="checkbox"/> Fen
<input type="checkbox"/> Bedrock		<input type="checkbox"/> Cliff	<input checked="" type="checkbox"/> Deciduous	<input type="checkbox"/> Bog
History		<input type="checkbox"/> Talus	<input type="checkbox"/> Coniferous	<input type="checkbox"/> Barren
<input checked="" type="checkbox"/> Natural		<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
Cover		<input type="checkbox"/> Rockland		<input type="checkbox"/> Thicket
<input type="checkbox"/> Open		<input type="checkbox"/> Beach / Bar		<input type="checkbox"/> Savannah
<input type="checkbox"/> Shrub		<input type="checkbox"/> Sand Dune		<input type="checkbox"/> Woodland
<input checked="" type="checkbox"/> Treed		<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) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	FRAPENN > POPTR0M = CARONAT
2	3	3	FRAPENN > CARONAT > FRANIGR = OSTV.RG
3	4	3	FRAPENN > FRANIGR > OSTVIRG > CARONAT
4	6	4	IMPCAPE > FRANIGR > GERMACA > ONOSENI

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

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

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

Ecosite:	Ash Mineral Deciduous Swamp	Code:	SW02
Vegetation Type:	Green Ash Mineral Decid. Swamp	Code:	SW02-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:
 pic # 067 Vernal pool @ 424465, 4771219
 ~ 10x10m ~ 25cm deep
 - no topsoil

Tree Tally by Species

Prism Factor 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
POPTR0M	2				4	
FRAPENN	1				2	
CARONAT	1				2	
FRAPENN	2				2	
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #		Summary				
	UTM	Zone	Moisture Regime				
Slope	Easting	424403	Drainage				
	Northing	4771197					
	Position	table 1 d					
	Aspect	N					
	Percent	0					
	Slope Length	None					
Depth to...	Mottles	15cm	Effective Texture (indicate below)				
	Gley						
	Water Table	40cm					
	Carbonates	?					
	Bedrock	13					
Soil Horizon Description	1	Depth from zero	0	% CF	% CF	% CF	% CF
		Texture	S:CL				
	2	Depth from zero	15cm	% CF	% CF	% CF	% CF
		Texture	S:CL				
	3	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
	4	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
			% Surface Stone/Rock				
			Moisture Regime	6			
			Drainage	6			

424448, pic # 068

ELC Community Description and Classification

Map #/18 JER. 1658/1699 Polygon: F005-2

Surveyor(s): SKM, SPS Date: 31-05-2012 Time start: 11:15 finish: 1:45

UTMZ: UTMZ: 424385 UTMN: 4771063

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
Site	<input type="checkbox"/> Acidic Bedrk	<input type="checkbox"/> Terrace	<input type="checkbox"/> Graminoid	<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 type="checkbox"/> Shallow Water	<input type="checkbox"/> Carb. Bedrk	<input checked="" type="checkbox"/> Tableland	<input type="checkbox"/> Lichen	<input type="checkbox"/> Swamp
<input type="checkbox"/> Surficial Dep.		<input type="checkbox"/> Roll. Upland	<input type="checkbox"/> Bryophyte	<input type="checkbox"/> Fen
<input type="checkbox"/> Bedrock		<input type="checkbox"/> Cliff	<input checked="" type="checkbox"/> Deciduous	<input type="checkbox"/> Bog
History		<input type="checkbox"/> Talus	<input type="checkbox"/> Coniferous	<input type="checkbox"/> Barren
<input checked="" type="checkbox"/> Natural		<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
Cover		<input type="checkbox"/> Rockland		<input type="checkbox"/> Thicket
<input type="checkbox"/> Open		<input type="checkbox"/> Beach / Bar		<input type="checkbox"/> Savannah
<input type="checkbox"/> Shrub		<input type="checkbox"/> Sand Dune		<input type="checkbox"/> Woodland
<input checked="" type="checkbox"/> Treed		<input type="checkbox"/> Bluff		<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	ACEJANA > FAGGRAN > FRAPENN
2	3	4	ACEJANA > FAGGRAN > FRAPENN
3	5	2	PRUVIRG = FRAPENN > RYBCTNO
4	6	3	GYRMACH > CIRLUPE

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 10% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

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

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

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

Ecosite:	Dry-Fresh Sugar Maple Decid. For.	Code:	F005
Vegetation Type:	Dry-Fresh Sugar Maple-Beck Dec.	Code:	F005-2
Inclusion:	Worming Spruce Cultural phytos.	Code:	CUPB9
Complex:	Cultural Thicket / Woodland	Code:	CUPB/CWLD

Community Profile Diagram/Comments

large oak pile ~ 2m long x 2m wide
 2.5m in dia height
 UTM = 424416, 4771063 pic # 069
 090

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
ACEJANA	6				4	
FAGGRAN	3				3	
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #					Summary
		UTM	Zone	Easting	Northing	
Slope	Position	424385				
	Aspect	4771063				
	Percent	2661end				
	Slope Length	N				
Depth to...	Mottles	0			Effective Texture (indicate below)	
	Gley	0				
	Water Table	0				
	Carbonates	0 N/D				
	Bedrock	0				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture	0 SCL			
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture	10cm SC			
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock	< 5%			
		Moisture Regime	3			
		Drainage	5			

Plant Species List
2012

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-cress (<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>Cheilone 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 blebersteinii</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 Camplion (<i>Silene latifolia</i>)					
Bull Thistle (<i>Cirsium vulgare</i>)						Virgin's-bower (<i>Clernatis virginiana</i>)						Bladder Camplion (<i>Silene vulgaris</i>)					
Horseweed (<i>Coryza canadensis</i>)						Field Bindweed (<i>Convolvulus arvensis</i>)						Hemlock Water-parnsnip (<i>Stium suave</i>)					
Daisy Fleabane (<i>Erigeron annuus</i>)						Dog-strangling Vine (<i>Cynanchum rossicum</i>)						Bitter Nightshade (<i>Solanum dulcamara</i>)					F
Philadelphia Fleabane (<i>Erig. philadelphicus</i>)						Wild Carrot (<i>Daucus carota</i>)						Black Nightshade (<i>Solanum pycnanthum</i>)					
<i>Erigeron</i>						Daphniford 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 fulorum</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>)					U
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>)						Singing Nettle (<i>Urtica dioica</i>)					
Ox-eye Daisy (<i>Leucanthemum vulgare</i>)						<i>Euphorbia</i>						Greater Bladderwort (<i>Utricularia vulgaris</i>)					
Pineapple-weed (<i>Metricaria discolor</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>)					FD	Veronica					
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 alepicum</i>)					U	Vicia					
Early Goldenrod (<i>Solidago juncea</i>)						White Avens (<i>Geum canadense</i>)					U	Periwinkle (<i>Viola minor</i>)					
Gray Goldenrod (<i>Solidago nemoralis</i>)						Urban Avens (<i>Geum urbanum</i>)					U	Dog Violet (<i>Viola conspersa</i>)					
<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>)					U	Com. Blue Violet (<i>Viola sororia</i>)					
<i>Sonchus</i>						Com. St. John's-wort (<i>Hypericum perforatum</i>)						Vicia					
Heart-leaf Aster (<i>Symph. cordifolium</i>)						Spotted Jewelweed (<i>Impatiens capensis</i>)					DU	BARBULES					R
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. punctatus</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>)					U	Monocot Herbs					
Coltsfoot (<i>Tussilago farfara</i>)						Northern Bugleweed (<i>Lycopus uniflorus</i>)						Water-plantain (<i>Alisma plantago-aquatica</i>)					
						Fringed Loosestrife (<i>Lysimachia ciliata</i>)						Wild Leek (<i>Allium tricoccum</i>)					
						Moneywort (<i>Lysimachia nummularia</i>)						Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)					DU
						<i>Lysimachia</i>						Asparagus (<i>Asparagus officinalis</i>)					
						Purple Loosestrife (<i>Lythrum salicaria</i>)					U	Wild Calla (<i>Calla palustris</i>)					
						Black Medick (<i>Medicago lupulina</i>)						Bluebead-lily (<i>Clintonia borealis</i>)					
						Alfalfa (<i>Medicago sativa</i>)						Garden Lily-of-valley (<i>Convallaria majalis</i>)					
						White Sweet-clover (<i>Mellilotus alba</i>)						Yel. Lady's Slipper (<i>Cypripedium parviflorum</i>)					
						Yellow Sweet-clover (<i>Mellilotus officinalis</i>)						Canada Waterweed (<i>Elodea canadensis</i>)					
						Wild Mint (<i>Mentha arvensis</i>)						Helleborine (<i>Epipactis helleborine</i>)					
						Wild Bergamot (<i>Monarda fistulosa</i>)						Yellow Trout Lily (<i>Erythronium americanum</i>)					U
						Small Forget-me-not (<i>Myosotis laxa</i>)						Blue-flag Iris (<i>Iris versicolor</i>)					
						Forget-me-not (<i>Myosotis scorpioides</i>)						Orange Day Lily (<i>Hemerocallis fulva</i>)					
						Water-cress (<i>Nasturtium officinale</i>)						Lesser Duckweed (<i>Lemna minor</i>)					
						Com. Evening-primrose (<i>Oenothera biennis</i>)						Starry Duckweed (<i>Lemna trisulca</i>)					
						Sweet-cicely (<i>Osmorhiza bartarii</i>)						Wild Lily-of-valley (<i>Maianthemum canadense</i>)					
						Yellow Wood-sorrel (<i>Oxalis stricta</i>)						False Solom Seal (<i>Maianthemum racemosum</i>)					F
						Wild Parsnip (<i>Pastinaca sativa</i>)						Star False Solomon (<i>Maianthemum stellatum</i>)					U
						English Plantain (<i>Plantago lanceolata</i>)						True Solomon Seal (<i>Polygonatum pubescens</i>)					
						Common Plantain (<i>Plantago major</i>)						Pickeral-weed (<i>Pontederia cordata</i>)					
						Rugel's Plantain (<i>Plantago rugelii</i>)						Curly-leaf Pondweed (<i>Potamogeton crispus</i>)					
						May-apple (<i>Podophyllum peltatum</i>)						Sago Pondweed (<i>Potamogeton pectinatus</i>)					
						Pale Smartweed (<i>Polygonum lapathifolium</i>)						<i>Potamogeton</i>					
						Lady's-thumb (<i>Polygonum persicaria</i>)						<i>Potamogeton</i>					
						Virginia Knotweed (<i>Polygonum virginianum</i>)					U	Broad-leaved Arrowhead (<i>Sagittaria latifolia</i>)					
						<i>Polygonum</i>						Herb. Carrion Flower (<i>Smilax herbacea</i>)					
						Rough Cinquefoil (<i>Potentilla norvegica</i>)						Bristly Greenbrier (<i>Smilax hispida</i>)					U
						Rough-fruited Cinquefoil (<i>Potentilla recta</i>)						Nodding Ladies' Tresses (<i>Spiranthes cernua</i>)					
						Common Cinquefoil (<i>Potentilla simplex</i>)						Rose Twisted-stalk (<i>Streptopus lanceolatus</i>)					
						<i>Potentilla</i>						Skunk-cabbage (<i>Symplocarpus foetidus</i>)					
						Heat-ail (<i>Prunella vulgaris</i>)						Purple Trillium (<i>Trillium erectum</i>)					
						Shinleaf (<i>Pyrola elliptica</i>)						White Trillium (<i>Trillium floridum</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: 118 - JER 16 SR 1103
 Date: 31 May 12
 Surveyors: SPM, SPB

SWD 2-2
 FDS 5-2

Significant Wildlife Habitat Form

AZCOM

Study Area: BLW (JER) GSH Map #: 118-JER1658/1693
 Date: 31 Mar 2012 Time Started: 1122
 Field Staff: SKM/SPS Time Finished: 1:45
 Weather Conditions: Sunny, 60% cloud, cool (18°C) wind 3

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, FE01)

Standing water present: No Yes (if yes, photograph and complete the following)
 UTMs: 424465E 4771219N Area of standing water delineated on field map
 Water depth (m): 15cm (1 pool) % open water: 100 % emergent vegetation: none
 Potential to hold water until at least July in most years: Yes / (No)
 Description of standing water (permanent pool, evidence of annual spring flooding, etc): vernal pool in large swamp E meadow marsh understorey - other pools already dry
 Area and soil/substrate of shoreline habitat: 25 x 1 m now muddy edge becoming exposed
 Type and abundance of cover in open water habitat: logs - no leaf litter
 Type and abundance of cover in surrounding habitat: Swamp 100% - overhanging trees with dying ash
 Evidence of disturbance (e.g. cattle grazing): no
 Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: none

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: 424393E 4771036N Likelihood to extend below frost line: possible
 % canopy cover: 50 % slope: 5% Distance to open canopy (m): 1m
 Description of fissure or stone pile (composition/material, dimensions, etc): large rocks piled at post edge - soil covered, 8x8m, 50-100cm high
 Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc): Forest field interface (agricultural field)

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
69, 70	rock pile		

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Study Area: 118 - JCR 1658 | 1693

Field Staff: SKM / SPS

Time Started: 1122

Date (yyyy-mm-dd): 2012 May 31

Feature No.: 118

Time Finished: 1145

Observed Species List

Species Code	UTM	EV	Notes	Species Code	UTM	EV	Notes
EWPE		SM					
ECFL		SH	VO				
REVI		SM	3				
AMER		VO					
NOCA		SM					
WOTH		SM	2				
BAOR		SM	2				
INBU		SM	2				
COYE		SM					
SOSP		SM	111				
HOWR		SM					
CHSP		SM	in plantation				
BCCH		SM	"				

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=Foos/Faecal sack, AE=Nest Entry

Other Wildlife Evidence:

OB=observed, VO=Vocalization, CA=Carcass, DP=Distinctive Parts, HO=House/Den, FY=Eggs/young, TK=tracks, FE=Feeding evidence, SC= Scat, SI=Other signs (specify)

PLANTS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
American Gromwell (<i>Lithospermum latifolium</i>) - S3 Bloom Time - Spring	Grows in rich deciduous woodlands, wooded floodplains, and shaded riverbanks as well as along the edges of woodlands	FOD7	Y (N) UTM: N/A
A Moss (<i>Astomum muehlenbergianum</i>) - S2 Bloom Time - Spring	Thin soil over level outcrop ledges and on soil under grasses in open prairie.	ALO, TPO	Y (N) UTM: N/A
Autumn Coral -root (<i>Corallorhiza odontorhiza</i>) - S2 Bloom Time - Summer to Fall	Found growing in openings of red pine or white pine plantations as well as dry sandy woods.	FOM1, FOM2, CUP3	Y (N) UTM: N/A
Broad Beech Fern (<i>Phegopteris hexagonoptera</i>) - SC Bloom Time- not a flowering plant	Species grows in rich, mature deciduous woods in southern Ontario.		Y (N) UTM: N/A
Burning Bush (<i>Euonymus atropurpureus</i>) - S3	Grows in dry to moist thickets, valleys, and forest edges. Similar Species: European Burning Bush (<i>Euonymus europaeus</i>); Distinctive Feature: Burning Bush has hairs on the underside of leaves while the European species does not.		Y (N) UTM: N/A
Carey's Sedge (<i>Carex careyana</i>) - S2 Bloom Time - May and June	Occurs in rich deciduous woods, often on floodplains and slopes and mesic to dry-mesic hardwood forests.	FOD6, FOD7, FOD9, SWD	Y (N) UTM: N/A
Caughuawaga Hawthorn (<i>Crataegus suborbiculata</i>) - S1	Occurs in old fields, poorly managed pastures, fencelines and roadsides.	CUM1, CUS1, CUT1	Y (N) UTM: N/A
Round-leaved Hawthorn (<i>Crataegus lumaria</i>) - S3?	Occurs in old fields, poorly managed pastures, fencelines and roadsides.	CUM1, CUS1, CUT1	Y (N) UTM: N/A
Chinese Hemlock Parsley (<i>Conioselinum chinense</i>) - S2 Bloom Time - summer to fall	Swampy places with deciduous trees, white cedars, tamarack; springy river banks, creek borders, wet borders of streams & rivers. Also calcareous seepage slopes.	SWC1, SWC3, SWC4, SWM1, SWM2, SWM4, SWM5, SWM6	Y (N) UTM: N/A
Cream Violet (<i>Viola striata</i>) - S3 Bloom Time- March- June).	Inhabits rich floodplain forest and low, wet woods.	FOD6, FOD7, FOD9, SWM, SWD	Y (N) UTM: N/A
Double -striped Bluet (<i>Enallagma basidens</i>) - S3	Inhabits fishless ponds, lakes and boggy swamps.	OAO, SA, SWM, SWD	Y (N) UTM: N/A

N/A - not observed

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Eastern Green-violet (<i>Hybanthus concolor</i>) - S2 <i>Bloom Time</i> – mid March to August	Occurs in rich, wet-mesic floodplain forests as well as mesic forests over limestone. Includes floodplains and river banks.	ALT1, FOD7	Y <input type="radio"/> N <input type="radio"/> UTM:
Green Dragon (<i>Arisaema dracontium</i>) - SC/S3 <i>Bloom Time</i> – 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.	FOD6, FOD7, FOD9	Y <input type="radio"/> N <input type="radio"/> UTM:
Harbinger-of-spring (<i>Eriogonum bulbosum</i>) - S3 <i>Bloom Time</i> – early to late April	Occurs in rich, moist deciduous woods, especially on floodplains.	FOD6, FOD7, FOD8, FOD9	Y <input type="radio"/> N <input type="radio"/> UTM:
Hazel Dodder (<i>Cuscuta coryli</i>) –SH	Occurs in open, moist tall-grass prairie and meadows - parasitic on <i>Aster</i> , <i>Heliopsis</i> , <i>Monarda</i> , <i>Rubus</i> , <i>Solidago</i> .	RBO, TPO2, CUM1	Y <input type="radio"/> N <input type="radio"/> UTM:
Leonard's Small Skullcap (<i>Scutellaria parvula</i>) –S3 <i>Bloom Time</i> – late Spring to early Summer	Occurs on open, rocky ground and prairies.	ALO, TPO	Y <input type="radio"/> N <input type="radio"/> UTM:
Mead's Sedge (<i>Carex meadii</i>) –S2 <i>Bloom Time</i> –late spring to early summer	Occurs in prairies and moist or dry open areas.	TPO, CUM1	Y <input type="radio"/> N <input type="radio"/> UTM:
Ovate Beak Grass –S1 <i>Bloom Time</i> - mid Summer	prefers riparian woodlands ¹⁴ ; floodplain swamps and river banks.	FOD6, FOD7, FOD9, SWD	Y <input type="radio"/> N <input type="radio"/> UTM:
Pawpaw (<i>Asimina triloba</i>) –S3 <i>Bloom Time</i> – March-May	Occurs in moist deciduous woods and stream banks.	FOD6, FOD7, FOD9	Y <input type="radio"/> N <input type="radio"/> UTM:
Perfoliate Tinker's-weed (<i>Triosteum perfoliatum</i>) – S1 <i>Bloom Time</i> – May, June, July	Grows in rich, deciduous woods.		Y <input type="radio"/> N <input type="radio"/> UTM: N/O
Pumpkin Ash (<i>Fraxinus profunda</i>) – S2?	This species is a wetland obligate and only grows in bottomland swamps and floodplains. Distinctive Feature: the base of the trunk swells outward, resembling a pumpkin in larger trees.		Y <input type="radio"/> N <input type="radio"/> UTM:
Riddell's Goldenrod (<i>Oligoneuron riddellii</i>)-SC	Riddell's Goldenrod grows in wet habitats such as wet marshes, moist prairies, fens, old fields and seepy banks.	ALO, TPO, CUM1	Y <input type="radio"/> N <input type="radio"/> UTM:
Shellbark Hickory (<i>Carya laciniosa</i>) – S3	Typically found in wet or wet-mesic deciduous forests and along stream banks. Similar Species: Shagbark Hickory. Distinctive Feature: Larger leaves and leaflets of 7.		Y <input type="radio"/> N <input type="radio"/> UTM: N/O
Shumard Oak (<i>Quercus shumardii</i>) –SC	Species inhabits mesic and mesic-hydric sites on clay and clay-loam soils with poor drainage.		Y <input type="radio"/> N <input type="radio"/> UTM:
Slim-flowered Muhly (<i>Muhlenbergia tenuiflora</i>) – S2	Found in rich deciduous forest dominated by either oak or beech-maple. It can also occur on rocky or sandy soils, wooded dunes, hillsides, and riverbanks.	SDT1, FOD5, FOD9	Y <input type="radio"/> N <input type="radio"/> UTM: N/O
Southern Tickseed (<i>Bidens coronata</i>)-S2	Inhabits dry to moist sandy fields and sandy openings in prairies.	TPO, CUM1	Y <input type="radio"/> N <input type="radio"/> UTM:
Stiff Gentian (<i>Gentianella quinquefolia</i>) - S2 <i>Bloom Time</i> – late summer to mid fall	Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, bluffs and wooded hillsides.	BLO1, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7	Y <input type="radio"/> N <input type="radio"/> UTM:
Stiff Goldenrod (<i>Solidago rigida</i>) –S3 <i>Bloom Time</i> -early June to end of November	Occurs on dry open ground, particularly in prairie remnants; along roadsides and railway, and waste places.	TPO1, CUM1	Y <input type="radio"/> N <input type="radio"/> UTM:
Tall Tickseed (<i>Coreopsis tripteris</i>)-S2 <i>Bloom Time</i> -late summer to early fall.	Occurs in prairies and open woods, and thickets.	TPO, TPS, TPW, FOD1, FOD2, FOD3, FOD4, FOD5, CUT1	Y <input type="radio"/> N <input type="radio"/> UTM:
Winged-Loosestrife (<i>Lythrum alatum</i>)-S3 <i>Bloom Time</i> - mid to late summer	found in prairies, meadows, open woods, thickets and wet disturbed areas.	TPO, CUM1, FOM, FOD, CUM1, CUT1, MAM2	Y <input type="radio"/> N <input type="radio"/> UTM:
Woodland Bulrush (<i>Scirpus expansus</i>) - S1	Grows in seepage areas, stream banks, and marshes. It is predominately found in the Asuable River.		Y <input type="radio"/> N <input type="radio"/> UTM:

MAMMALS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Little Brown Bat (<i>Myotis lucifugus</i>)-SC	This species roosts in caves, quarries, tunnels, hollow trees or buildings but requires nearby wetlands and forest edges for hunting.	FOD, SWD	Y <input type="radio"/> N <input type="radio"/> UTM: N/O
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)-SC	The Northern Long-eared Bat roosts and hibernates in mines, caves, and man-made structures but prefers hollow trees in wooded areas	FOD, SWD	Y <input type="radio"/> N <input type="radio"/> UTM: N/O
Tri-colored Bat (<i>Parimyotis subflavus</i>)-SC	The Tricoloured Bat is one of the common bats in Ontario. It prefers to roost in trees, cliff crevices, and caves usually in open woodlands that are near water	FOD, SWD	Y <input type="radio"/> N <input type="radio"/> UTM: N/O

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Woodland Vole (<i>Microtus pinetorum</i>)-SC	The Woodland Vole inhabits mature deciduous forests where it can burrow into loose sandy soils and deep humus. Other habitats also include grasslands, meadows, and orchards	FOD	Y <input checked="" type="radio"/> N UTM:

REPTILES

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Eastern Ribbonsnake (<i>Thamnophis sauritus</i>) - SC	Assessed as SWH. Record species if found.	MAM, MAS	not required.
Milksnake (<i>Lampropeltis triangulum</i>) -SC	Assessed as SWH. Record species if found.	CUM, CUT	not required.
Northern Map Turtle (<i>Graptemys geographica</i>) -SC	Large water bodies with soft bottoms & aquatic veg; basks on logs, rocks, beaches, grassy edges; may nest at some distance from water; aquatic corridors (e.g. stream) required for movement.	OAO, SA	Y <input checked="" type="radio"/> N UTM:

INSECTS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Azure Bluet (<i>Enallagma aspersum</i>)- S3	Found in fishless ponds and other small water bodies. Distinctive Features: Male – Large Blue eyespot and mostly black dorsal surface on abdomen with a blue tip; Females: Green eyespots and almost all black dorsal surface and black tip. Similar Species: Common Blue Damselfly – has more blue than black on abdomen.	OAO	Y <input checked="" type="radio"/> N UTM:
Blue-ringed Dancer (<i>Argia sedula</i>) – S2	Found in streams and rivers of small to medium size and where there is dense herbaceous vegetation along the banks or shores.		Y <input checked="" type="radio"/> N UTM:
Dusky Dancer (<i>Argia translate</i>) –S3	Inhabits small to medium, slow flowing sandy or rocky streams or large rivers in quite open areas or with wooded banks.	OAO, SA, SWM, SWD	Y <input checked="" type="radio"/> N UTM:

BIRDS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Bald Eagle (<i>Haliaeetus leucocephalus</i>)-SC	Assessed as SWH. Record species if found.	-	not required.
Hooded Warbler (<i>Wilsonia Citrina</i>) - SC	An area-sensitive species requiring large tracts of mature, closed canopy, deciduous forests. They generally nest above ground and prefer forests with tall trees that are along stream bottoms or at ravine edges	-	Y <input checked="" type="radio"/> N UTM:
Louisiana Waterthrush (<i>Selurus motacilla</i>) -SC	<u>Mature forests</u> along steeply sloped ravines adjacent to running water. Trees, bushes, exposed roots, cliffs, banks and mossy logs are favoured nesting spots. <u>Riparian woodlands</u> are preferred stopover sites during migration.	FOD, FOM	Y <input checked="" type="radio"/> N UTM:

Wetland Data Collection Sheet



Study area: 118 - JER 1658/1693 Date (yyyy-mm-dd): 2012 May 31 Field Staff: SKM, SPS	Map No: 1 Time Started: 11:22 Time Finished: 1:45
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Presence of Groundwater No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>
<input type="checkbox"/> bank seepage <input type="checkbox"/> iron staining <input type="checkbox"/> groundwater indicator

Site Type Lacustrine <input type="checkbox"/> (associated with lakes) Isolated <input type="checkbox"/> Riverine <input checked="" type="checkbox"/> (associated with rivers) - dug channel through woods - spreads out + becomes marshy down slope Palustrine <input type="checkbox"/> absent or intermittent inflow and either intermittent or permanent outflow what are the water inputs and outputs? tile drainage from field to N

Soils refer to ELC card for soils information silty clay
--

% open Water	
Type 1 - <5% <input checked="" type="checkbox"/>	Type 5 - 26-75% <input type="checkbox"/> (water occurring in a small pattern)
Type 2 - 5-25% <input type="checkbox"/> (water occurring in one central location)	Type 6 - 76-95% <input type="checkbox"/> (occurring in a central location, vegetation is peripheral)
Type 3 - 5-25% <input type="checkbox"/> (water occurring in ponds of various sizes)	Type 7 - 76-95% <input type="checkbox"/> (vegetation occurs in patches or diffuse, open stands)
Type 4 - 26-75% <input type="checkbox"/> (water occurring in a central location)	Type 8 - >95% <input type="checkbox"/> (water occupies over 95% of the area)

Community Descriptions			
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
SWD 2-2	Green ash, black ash, stony false Solomon's-seal, w. geranium, jewelweed

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

^{10x10m}
(small) pool, slightly cloudy, unlikely to last into
July though leopard frog noted (adult)
very close to road but
surrounded by forest & swamp in flat topography

Map # 058
 ~ 20x10m = 6-7cm water
 Pic # 056, 057

note: add logging trail through east half of food

ELC
 Community Description and Classification

Map #: 119 TER 1693/1907 Polygon: FOODS-2
 Surveyor(s): SKM JPS Date: 31-05-2012 Time start: 8:00 finish: 10:45
 UTMZ: UTMZ: 423926 UTMN: 4771150

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"/> 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 checked="" 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"/> 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	4	ACEIAIA > FAGRAAN >> TILAMEA > FABENAI
2	3	4	ACEIAIA > FAGRAAN > FABAMEA
3	4	3	FAGAMEA > FAGRAAN > ACEIAIA
4	6	3	GERMAM > FABINIC >> MAIRALC = ARITRIP

HT Codes: 7 < 0.2m 6 > 0.2-0.5m 5 > 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 - 60% 4 > 60%

Stand Composition:

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

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

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

Ecosite: Dry-fresh Sugar Maple Deciduous For. Code: FOODS
Vegetation Type: Dry-fresh Sugar Maple-Beech Deciduous For. Code: FOODS-2
Inclusion: Code:
Complex: Code:

Community Profile Diagram/Comments
 - large - small wet pool along wetland
 - 5m - 3m wide
 - 5m - 3m wide along edge of wetland

Notes: generally small wetland pools along wetland
 At large wetland pool: 423926, 477115 = 30cm deep; ~ 15x60m
 Pic # 059

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
TILAMEA	0				2	
ACEIAIA	0				3	
FAGAMEA	0				5	
Total						100
Basal Area (BA)						
Dead						

Prism Factor 2

Soils Ontario and ELC Soils Description

Site Metrics		Pit/Auger #	Summary				
Site Metrics	UTM	Zone				Moisture Regime	
		Easting	423926				
		Northing	4771150				
	Slope	Position					Drainage
		Aspect					
		Percent					
Depth to...		Mottles	0			Effective Texture (indicate below)	
		Gley	0				
		Water Table	0				
		Carbonates	?				
		Bedrock	0				
Soil Horizon Description	1	Depth from zero	0	% CF	% CF	% CF	% CF
		Texture	SL				
	2	Depth from zero	12cm	% CF	% CF	% CF	% CF
		Texture	SCL Form				
	3	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
	4	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
			% Surface Stone/Rock	< 5%			
			Moisture Regime	3			
			Drainage	5			

pool: 423926, 477115 = 30cm deep; ~ 15x60m
 Pic # 059

Plant Species List
2012

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>)	U				
White Snakeroot (<i>Ageratina altissima</i>)						Cutleaf Toothwort (<i>Cardamine concatenata</i>)	R					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 canadensis</i>)	R				
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 blehersteinii</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>)	D					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 Campton (<i>Silene latifolia</i>)					
Bull Thistle (<i>Cirsium vulgare</i>)	R					Virgin's-bower (<i>Clematis virginiana</i>)						Bladder Campton (<i>Silene vulgaris</i>)					
Horseweed (<i>Coryza canadensis</i>)						Field Bindweed (<i>Convolvulus arvensis</i>)						Hemlock Water-parsnip (<i>Sium suave</i>)	F				
Daisy Fleabane (<i>Erigeron annuus</i>)						Dog-strangling Vine (<i>Cynanchum rossicum</i>)						Bitter Nightshade (<i>Solanum dulcamara</i>)	F				
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-com (<i>Dicentra canadensis</i>)						Common Chickweed (<i>Stellaria media</i>)					
Boneset (<i>Eupatorium perforatum</i>)	R					Dutchman's-breeches (<i>Dicentra cucullaria</i>)						Early Meadow-rue (<i>Thalictrum dioicum</i>)	U				
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>)	R				
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>)	3				
Ox-eye Daisy (<i>Leucanthemum vulgare</i>)						<i>Euphorbia</i>						Greater Bladderwort (<i>Utricularia vulgaris</i>)					
Pineapple-weed (<i>Matricaria discoides</i>)						Hemp Nettle (<i>Galeopsis tetrahit</i>)						Common Mullein (<i>Verbascum thapsus</i>)					
Tall White Lettuce (<i>Faranthes altissima</i>)	U					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 album</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>)	U					Herb-robert (<i>Geranium robertianum</i>)						Cow Vetch (<i>Vicia cracca</i>)					
Giant Goldenrod (<i>Solidago gigantea</i>)						Yellow Avens (<i>Geum alepiticum</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>						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>)	U					Com. Blue Violet (<i>Viola sororia</i>)	U				
<i>Sonchus</i>						Com. St. John's-wort (<i>Hypericum perforatum</i>)						<i>Viola cucullata</i>	R				
Heart-leaved Aster (<i>Symph. cordifolium</i>)						Spotted Jewelweed (<i>Impatiens capensis</i>)						<i>Viola sp.</i>	U				
Heath Aster (<i>Symphoricarichum arcticoides</i>)						Wood Nettle (<i>Laportea canadensis</i>)						<i>Viola sp.</i>	U				
Tall White Aster (<i>Symph. lanceolatum</i>)						Motherwort (<i>Leonurus cardiaca</i>)						<i>Viola sp.</i>	U				
Calico Aster (<i>Symphoricarichum lateriflorum</i>)	F					Field Peppergrass (<i>Lepidium campestre</i>)						<i>Viola sp.</i>	U				
New England Aster (<i>Symph. novae-angliae</i>)						Eur. Groundsel (<i>Lithospermum officinale</i>)						<i>Viola sp.</i>	U				
Purple-stem Aster (<i>Symph. punctatus</i>)						Butter & Eggs (<i>Linaris vulgaris</i>)						<i>Viola sp.</i>	U				
Common Tansy (<i>Tanacetum vulgare</i>)						Great Lobelia (<i>Lobelia siphilitica</i>)						<i>Viola sp.</i>	U				
Common Dandelion (<i>Taraxacum officinale</i>)	U					<i>Lobelia</i>						Monocot Herbs					
Com. Goatsbeard (<i>Tragopogon pratensis</i>)						Cut-leaf Bugleweed (<i>Lycopus americanus</i>)						Water-plantain (<i>Alisma plantago-aquatica</i>)					
Coatsfoot (<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>)	F				
						Moneywort (<i>Lysimachia nummularia</i>)						Asparagus (<i>Asparagus officinalis</i>)					
						<i>Lysimachia sp.</i>						Wild Cella (<i>Calla palustris</i>)					
						Purple Loosestrife (<i>Lythrum salicaria</i>)						Bluehead-illy (<i>Clintonia borealis</i>)					
						Black Medick (<i>Medicago lupulina</i>)						Garden Lily-of-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>)	R				
						Wild Mint (<i>Mentha arvensis</i>)						Yellow Trout Lily (<i>Erythronium americanum</i>)	R				
						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-cress (<i>Nasturtium officinale</i>)						Starry Duckweed (<i>Lemna trisulca</i>)					
						Com. Evening-primrose (<i>Oenothera biennis</i>)						Wild Lily-of-valley (<i>Maianthemum canadense</i>)	R				
						Sweet-cicely (<i>Osmorhiza hirtella</i>)						False Solom Seal (<i>Maianthemum racemosum</i>)	F				
						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>)	U				
						English Plantain (<i>Plantago lanceolata</i>)						Pickeral-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>Scleranthus 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 lancaolatus</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>)	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: 119 - JER 6/93/1707 FOD 6-2
 Date: 30 May 12 SWD 2-2
 Surveyors: SPSY SKM

Significant Wildlife Habitat Form

AZCOM

Study Area: BLW JER GSH Map #: 566-119-5ER6093/1707
 Date: 31 May 12 Time Started: 0800
 Field Staff: SKM, EPS Time Finished: 1045
 Weather Conditions: 70% high cloud, wind 1, 14°C

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: 428840E, 42961E, 477114N Area of standing water delineated on field map
 Water depth (m): 0-740 cm % open water: 50-100 % emergent vegetation: <1 (slum)
 Potential to hold water until at least July in most years: Yes / No
 Description of standing water (permanent pool, evidence of annual spring flooding, etc): Large areas of woodland pools - leaf-covered & logs sealed around + within
 Area and soil/substrate of shoreline habitat: mineral soil 60m x 2m - very
 Type and abundance of cover in open water habitat: extensive vernal pools & shores gradually becoming more exposed logs, some areas of shrubs, Lemna
 Type and abundance of cover in surrounding habitat: surrounding forest with some patches of marsh vegetation in a more open landscape
 Evidence of disturbance (e.g. cattle grazing): localized cutting + extensive along edges of forest vernal pool
 Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: larvae present frog

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

AZCOM

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, 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: 423926E 4771150N

Age of oldest trees: 70-80 ys

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

selective cutting, clear-cut in center

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

well-structured canopy, subcanopy & shrub layers, DWD a couple of large open areas in perches

Photo #	Location or Subject	Photo #	Location or Subject
SS144	largest vernal pool		
SS148 & 149	mature forest		
SS143	swamp		

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Study Area: 19-JER 6093/1707
 Date (yyyy-mm-dd): 2012 May 31

Field Staff: SKM, SFS
 Feature No.: 119

Time Started: 0800
 Time Finished: 1045

Observed Species List

Species Code	UTM	EV	Notes	Species Code	UTM	EV	Notes
HOUR		SM		BLJA		VO	SH
AMRO		SM		AMRO		A	
REVI		SM		BAOR		SH	VO
WOTH		SM	east - west halves	BRCA		SM	
RBGR		SM		INBU		SM	
MODD		SM		NOCA		SM	
RTHA		A	no stick nest	AMCR		FY	
DOWD		SH					
WBNU		SH					
RBWO		SH					
EACH		OB					
GRFR	423909E 471084N	VO	Wernal pool				
COGR		A					

Note: Evidence Codes (EV) Breeding Bird (Possible) Breeding Bird (Probable) 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)
 SH=Suitable Habitat, SM=Singing Male; T-Territory, D=Display, P=Pair, N=Nest Building, V= Visiting Nest; A=Anxiety Behavior; DD=Distraction, NU=Used Nest, FY=Fledged Young, NE=Eggs, NY=Young, FS=Foos/Faecal sack, AE=Nest Entry

PLANTS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
American Gromwell (<i>Lithospermum latifolium</i>) - S3 Bloom Time - Spring	Grows in rich deciduous woodlands, wooded floodplains, and shaded riverbanks as well as along the edges of woodlands	FOD7	Y <input checked="" type="radio"/> UTM:
A Moss (<i>Astomum muehlenbergianum</i>) - S2 Bloom Time - Spring	Thin soil over level outcrop ledges and on soil under grasses in open prairie.	ALO, TPO	Y <input checked="" type="radio"/> UTM:
Autumn Coral -root (<i>Corallorhiza odororhiza</i>) - S2 Bloom Time - Summer to Fall	Found growing in openings of red pine or white pine plantations as well as dry sandy woods.	FOM1, FOM2, CUP3	Y <input checked="" type="radio"/> UTM:
Broad Beech Fern (<i>Phegopteris hexagonoptera</i>) - SC Bloom Time- not a flowering plant	Species grows in rich, mature deciduous woods in southern Ontario.		Y <input checked="" type="radio"/> N UTM: N/C
Burning Bush (<i>Euonymus atropurpureus</i>) - S3	Grows in dry to moist thickets, valleys, and forest edges. Similar Species: European Burning Bush (<i>Euonymus europaeus</i>). Distinctive Feature: Burning Bush has hairs on the underside of leaves while the European species does not.		Y <input checked="" type="radio"/> N UTM: N/C
Carey's Sedge (<i>Carex careyana</i>) - S2 Bloom Time - May and June	Occurs in rich deciduous woods, often on floodplains and slopes and mesic to dry-mesic hardwood forests.	FOD6, FOD7, FOD9, SWD	Y <input checked="" type="radio"/> UTM:
Caughuawaga Hawthorn (<i>Crataegus suborbiculata</i>) - S1	Occurs in old fields, poorly managed pastures, fencelines and roadsides.	CUM1, CUS1, CUT1	Y <input checked="" type="radio"/> UTM:
Round-leaved Hawthorn (<i>Crataegus lumaria</i>) - S3?	Occurs in old fields, poorly managed pastures, fencelines and roadsides.	CUM1, CUS1, CUT1	Y <input checked="" type="radio"/> UTM:
Chinese Hemlock Parsley (<i>Conioselinum chinense</i>) - S2 Bloom Time -summer to fall	Swampy places with deciduous trees, white cedars, tamarack; springy river banks, creek borders, wet borders of streams & rivers. Also calcareous seepage slopes.	SWC1,SWC3,SWC4,SWM1, SWM2,SWM4,SWM5, SWM6	Y <input checked="" type="radio"/> UTM:
Cream Violet (<i>Viola striata</i>) - S3 Bloom Time- March- June).	Inhabits rich floodplain forest and low, wet woods.	FOD6, FOD7, FOD9, SWM, SWD	Y <input checked="" type="radio"/> UTM:
Double -striped Bluet (<i>Enallagma basidens</i>) -S3	Inhabits fishless ponds, lakes and boggy swamps.	OAO, SA, SWM, SWD	Y <input checked="" type="radio"/> UTM:

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
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.	ALT1, FOD7	Y <input checked="" type="radio"/> N UTM:
Green Dragon (<i>Arisaema dracontium</i>) - SC/S3 <i>Bloom Time – May and June</i>	Species found in damp deciduous forest and along river streams. Particularly Maple forest and forest dominated by Red Ash and White Elm.	FOD6, FOD7, FOD9	Y <input checked="" type="radio"/> N UTM:
Harbinger-of-spring (<i>Eriogenia bulbosa</i>) - S3 <i>Bloom Time – early to late April</i>	Occurs in rich, moist deciduous woods, especially on floodplains.	FOD6, FOD7, FOD8, FOD9	Y <input checked="" type="radio"/> N UTM:
Hazel Dodder (<i>Cuscuta coryli</i>) –SH	Occurs in open, moist tall-grass prairie and meadows - parasitic on <i>Aster, Heliathus, Monarda, Rubus, Solidago</i> .	RBO, TPO2, CUM1	Y <input checked="" type="radio"/> N UTM:
Leonard's Small Skullicap (<i>Scutellaria parvula</i>) –S3 <i>Bloom Time – late Spring to early Summer</i>	Occurs on open, rocky ground and prairies.	ALO, TPO	Y <input checked="" type="radio"/> N UTM:
Mead's Sedge (<i>Carex meadii</i>) –S2 <i>Bloom Time –late spring to early summer</i>	Occurs in prairies and moist or dry open areas.	TPO, CUM1	Y <input checked="" type="radio"/> N UTM:
Ovate Beak Grass –S1 <i>Bloom Time- mid Summer</i>	prefers riparian woodlands ¹⁴ ; floodplain swamps and river banks.	FOD6, FOD7, FOD8, SWD	Y <input checked="" type="radio"/> N UTM:
Pawpaw (<i>Asimina triloba</i>) –S3 <i>Bloom Time – March-May</i>	Occurs in moist deciduous woods and stream banks.	FOD6, FOD7, FOD9	Y <input checked="" type="radio"/> N UTM:
Perfoliate Tinker's-weed (<i>Triosteum perfoliatum</i>) – S1 <i>Bloom Time – May, June, July</i>	Grows in rich, deciduous woods.		Y <input checked="" type="radio"/> N UTM: NO
Pumpkin Ash (<i>Fraxinus profunda</i>) – S2?	This species is a wetland obligate and only grows in bottomland swamps and floodplains. Distinctive Feature: the base of the trunk swells outward, resembling a pumpkin in larger trees.		Y <input checked="" type="radio"/> N UTM:
Riddell's Goldenrod (<i>Oligoneuron riddellii</i>)-SC	Riddell's Goldenrod grows in wet habitats such as wet marshes, moist prairies, fens, old fields and seepy banks.	ALO, TPO, CUM1	Y <input checked="" type="radio"/> N UTM:
Shellbark Hickory (<i>Carya iacinosa</i>) – S3	Typically found in wet or wet -mesic deciduous forests and along stream banks. Similar Species: Shagbark Hickory. Distinctive Feature: Larger leaves and leaflets of 7.		Y <input checked="" type="radio"/> N UTM: N/D
Shumard Oak (<i>Quercus shumardii</i>) –SC	Species inhabits mesic and mesic -hydric sites on clay and clay-loam soils with poor drainage.		Y <input checked="" type="radio"/> N UTM:
Slim-flowered Muhly (<i>Muhlenbergia tenuiflora</i>) – S2	Found in rich deciduous forest dominated by either oak or beech-maple. It can also occur on rocky or sandy soils, wooded dunes, hillsides, and riverbanks.	SDT1, FOD5, FOD9	Y <input checked="" type="radio"/> N UTM:
Southern Tickseed (<i>Bidens coronata</i>)-S2	Inhabits dry to moist sandy fields and sandy openings in prairies.	TPO, CUM1	Y <input checked="" type="radio"/> N UTM:
Stiff Gentian (<i>Gentiana quinquefolia</i>) - S2 <i>Bloom Time – late summer to mid fall</i>	Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, bluffs and wooded hillsides.	BLO1, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7	Y <input checked="" type="radio"/> N UTM:
Stiff Goldenrod (<i>Solidago rigida</i>) –S3 <i>Bloom Time-early June to end of November</i>	Occurs on dry open ground, particularly in prairie remnants; along roadsides and railway, and waste places.	TPO1, CUM1	Y <input checked="" type="radio"/> N UTM:
Tall Tickseed (<i>Coreopsis tripteris</i>)-S2 <i>Bloom Time-late summer to early fall.</i>	Occurs in prairies and open woods, and thickets.	TPO, TPS, TPW, FOD1, FOD2, FOD3, FOD4, FOD5, CUT1	Y <input checked="" type="radio"/> N UTM:
Winged –Loosestrife (<i>Lythrum alatum</i>)-S3 <i>Bloom Time- mid to late summer</i>	found in prairies, meadows, open woods, thickets and wet disturbed areas.	TPO, CUM1, FOM, FOD, CUM1, CUT1, MAM2	Y <input checked="" type="radio"/> N UTM:
Woodland Bulrush (<i>Scirpus expansus</i>) - S1	Grows in seepage areas, stream banks, and marshes. It is predominately found in the Asuable River.		Y <input checked="" type="radio"/> N UTM:

MAMMALS			
Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Little Brown Bat (<i>Myotis lucifugus</i>)-SC	This species roosts in caves, quarries, tunnels, hollow trees or buildings but requires nearby wetlands and forest edges for hunting.	FOD, SWB	Y <input checked="" type="radio"/> N UTM: N/D
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)-SC	The Northern Long-eared Bat roosts and hibernates in mines, caves, and man-made structures but prefers hollow trees in wooded areas	FOD, SWD	Y <input checked="" type="radio"/> N UTM: N/D
Tri-colored Bat (<i>Perimyotis subflavus</i>)-SC	The Tricoloured Bat is one of the common bats in Ontario. It prefers to roost in trees, cliff crevices, and caves usually in open woodlands that are near water	FOD, SWD	Y <input checked="" type="radio"/> N UTM: N/D

Species of Conservation Concern Habitat and Incidental Wildlife – Jericho



Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Woodland Vole (<i>Microtus pinetorum</i>)-SC	The Woodland Vole inhabits mature deciduous forests where it can burrow into loose sandy soils and deep humus. Other habitats also include grasslands, meadows, and orchards	FOD	Y (N) UTM:

REPTILES

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Eastern Ribbonsnake (<i>Thamnophis sauritus</i>) - SC	Assessed as SWH. Record species if found.	MAM, MAS	not required.
Milksnake (<i>Lampropeltis triangulum</i>) -SC	Assessed as SWH. Record species if found.	CUM, CUT	not required.
Northern Map Turtle (<i>Graptemys geographica</i>) -SC	Large water bodies with soft bottoms & aquatic veg; basks on logs, rocks, beaches, grassy edges; may nest at some distance from water; aquatic corridors (e.g. stream) required for movement.	OAO, SA	Y (N) UTM:

INSECTS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Azure Bluet (<i>Enallagma aspersum</i>)- S3	Found in fishless ponds and other small water bodies. Distinctive Features: Male – Large Blue eyespot and mostly black dorsal surface on abdomen with a blue tip; Females: Green eyespots and almost all black dorsal surface and black tip. Similar Species: Common Blue Damselfly – has more blue than black on abdomen.	OAO	Y (N) UTM:
Blue-ringed Dancer (<i>Argia sedula</i>) – S2	Found in streams and rivers of small to medium size and where there is dense herbaceous vegetation along the banks or shores.		Y (N) UTM:
Dusky Dancer (<i>Argia transata</i>) –S3	Inhabits small to medium, slow flowing sandy or rocky streams or large rivers in quite open areas or with wooded banks.	OAO, SA, SWM, SWD	Y (N) UTM:

BIRDS

Species	Habitat Description	ELC	Habitat Present (Y/N; UTM; description of habitat if present)
Bald Eagle (<i>Haliaeetus leucocephalus</i>)-SC	Assessed as SWH. Record species if found.	-	not required.
Hooded Warbler (<i>Wilsonia Citrina</i>) - SC	An area-sensitive species requiring large tracts of mature, closed canopy, deciduous forests. They generally nest above ground and prefer forests with tall trees that are along stream bottoms or at ravine edges	-	Y (N) UTM:
Louisiana Waterthrush (<i>Sialurus motacilla</i>) -SC	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.	FOD, FOM	Y (N) UTM: