

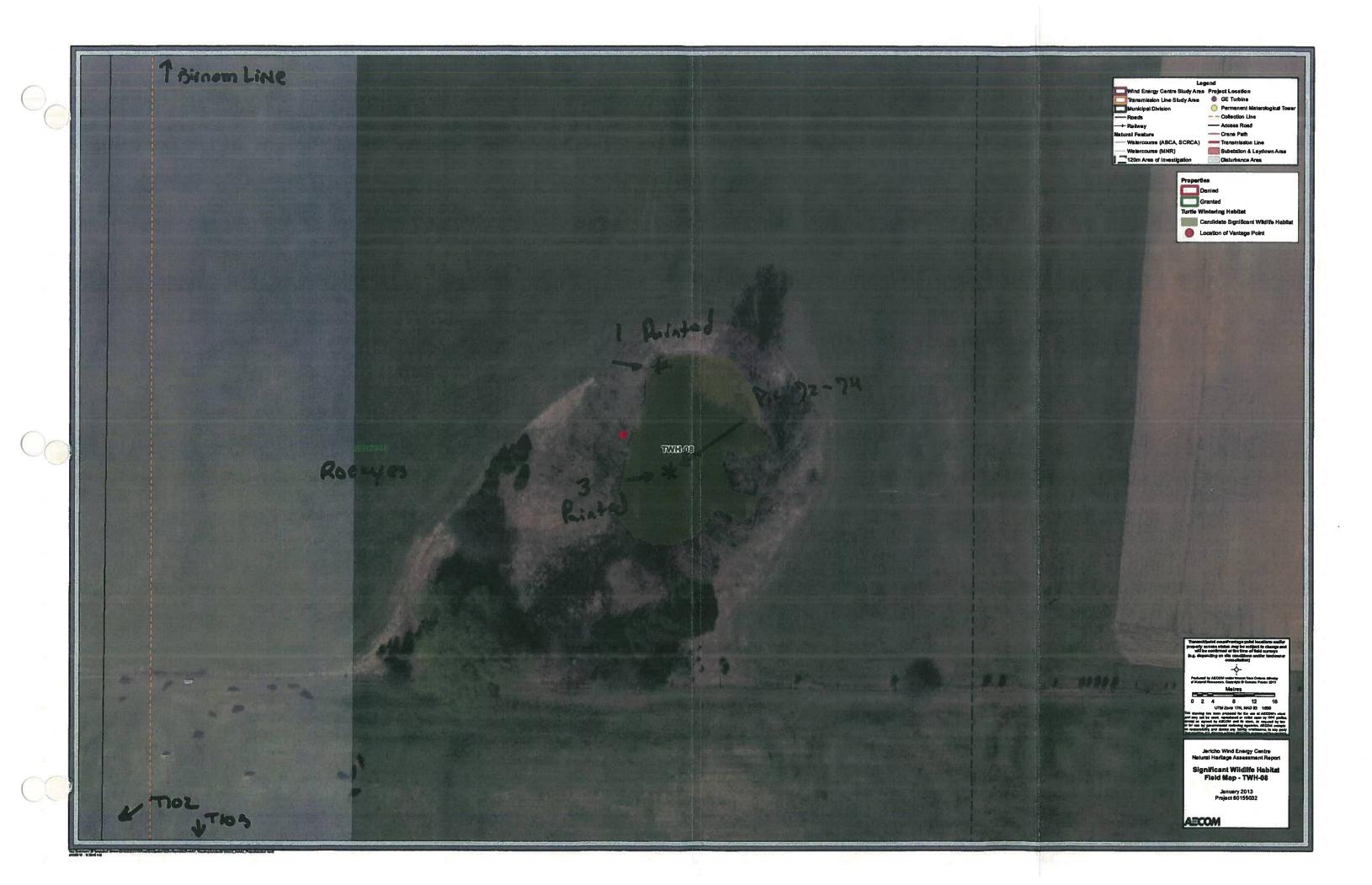
Study Area: 🍣	ER			Obse	rvers: Rob / Rauna
Feature ID: $ au$	WHO7				\ /
Fill in survey for	m for each vantage po	oint. Van	tage Po	oint Numb	er:
Vantage Point	UTM See Round 11	Votes	•	Date:	May 16, 2013
Easting:	Northing:				Time: 11:35 no End Time: 11:55 no
Weather Condi	tions				7
Temperature (C				Sh) Wind (B.S.):
Cloud Cover (%):	Percipit	ation:		
	Local Habitat Conditio				/equiphment pile.
•	observed during moni Furtles Observed	toring pe	riod (Y	es/No):	If yes, fill in the table below.
Species	UTMs	Length	Sex	#	Behaviour/ Description of visible traits
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	,				
Additional Note	es	1		l	
- RWBL				- AMRO	
- n B.+	honging on shru	la lock	(5), (vis/sin	HIdina
- Minnous		V		3	111)
Green Floo	.				
- Blid Nest	in BW corner of	6000	(000	+4	
		. 1		,	
Photo Log	1 5	.111			
Photo ID	Decription (locations	, airectio	n, obse	rvation, et	c.)
			-		
			 		
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Chindre A							
Study Area:				Obse	rvers: Tom	Storney	+ Jess Pate
Feature ID: To	∪ H − の 8 rm for each vantage p	oint Via-	tage P	aint Numb	Ori I		
		oint. van	tage P			1	
Vantage Point		.ub//	ロつっ	Date	: 07/15/1	۔ م	nd Time: 5:25P.~
	399 Northing	4766	1/5	Start	Time: 5.05	r.m. E	na lime: 0.25 P.M
Weather Condi		\A/in d /D	۱: س ۱.	<	\.	find In C \	l n
Cloud Cover (%	C): 21°C	_ Wind (D	nr.j: ation:	None		vina (8.5.) <u>:</u>	9
cioda cover (%	1. 100 7,	Percipit	ation.	NONE			
Description of	Local Habitat Condition	ons and A	djacen	t Land Use	:		
=	observed during moni Turtles Observed	itoring pe	riod (Y	'es/No):	<u>N) ()</u> ./j	f yes, fill in t	the table below.
Species	U T Ms	Length	Sex	#	Behaviour/ D	escription o	of visible traits
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		1					
		 					
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	<u> </u>				<u> </u>		
Additional Note	es .				1		
- Appea	us Some	work !	has	been don	e around	Pon	
Lex	onsel Sols	- Pole	ntra		restoration	Dame	d
- mestin	acese alon	a she	ne)		1	
	7 9						
Photo Log							
Photo ID	Decription (locations	, direction	n, obse	rvation, etc	c.)		
58	North Port	ion of	Pond				
59	South Porti	on of	Pond				
		,					



Study Area: Te	richo			Obse	ervers: Ton Showey	+ Jess Pette
Feature ID: Tu	14-08				· · · · · · · · · · · · · · · · · · ·	
Fill in survey for	m for each vantage p	oint. Va r	ntage P	oint Numb	er: VPI	
Vantage Point	UTM See Round #	1 Note.	5	Date	:05/02/2013	
Easting:	Northing			Start	Time:9:15 am	End Time: 9:35am
Weather Condi						
Temperature (C	:°): 19°C	_Wind (E	Dir.):	<u>SE</u>	Wind (B.9	S.) <u>: </u>
Cloud Cover (%)	10%	Percipit	ation:	None	Wind (B.S	
Description of I	ocal Habitat Condition	ons and A	\djacen	nt Land Use	•	
Description of 1	bserved during moni Turtles Observed			es/No):	<u>Yes</u> .If yes, fill	
Species	UTMs	Length	Sex	#	Behaviour/ Description	on of visible traits
Painted Turtle		8-12cm		4	3 Bashing on Log, 1	bosking or bank
		ļ				<u> </u>
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		-				
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		 		-		
					 	
Additional Note	nollard from	Par	d			
Photo Log						
Photo ID	Decription (locations,	direction	n obso	nyation of	- 1	
			_	i vation, etc	··)	
72/14	Vainted Tixtle) 10	Pond			



Study Area:	Sericho			Obse	ervers: RA, RC
Feature ID: 7	WH-08				****
Fill in survey f	orm for each vantage	e point. Var	itage P	oint Numb	er: /
Vantage Poin	t UTM SEE ROUND	1 Notes		Date	: nov 16, 2013
Easting:	Northi	ing:		Start	: May 16, 2013 :Time: 10:0000 End Time: 10:200
Weather Con					****
Temperature	(C°): 20°C	Wind ([Dir.):	SE	Wind (B.S.): 2
Cloud Cover (%): <i>() ^e/₆</i>	Percipit	ation:		
Agricute with lov plant no	f Local Habitat Cond (a) (a) d, g(a) Adolated who Sive wildflow s observed during me	soid ales	. A	ira sul	scending pend closed, spoker
•	s observed during mo f Turtles Observed	onitoring pe	eriod (\	res/No):	If yes, fill in the table below.
Species	UTMs	Length	Sex	#	Behaviour/ Description of visible traits
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addist 1 **	1		Щ	<u> </u>	1
Additional No	eved towns	OVET	Field	Js/pend	S
Photo Log					
Photo ID	Decription (location	ons, directio	n, obs	ervation, et	tc.)
					- 28



Appendix C

Vascular Plant Species List

BOTANCAL MANIE COMMON NAME OF THE PROPERTY O	1		4-Jul-13 298 CUM1-1	1-Aug-13 340 CUM1-1	9-May-12 383 FOD6-5
Part	CUW1		298	340	383
February	CUW1				
Page		V1 CI	CUM1-1	CUM1-1	FOD6-5
Applications Spleemort Family V V V V V V V V V	R				
Application Polymeuron Elony Spleament 6 3 8 8 9 9 9 9 9 9 9 9	R				
Dyspleridacese Wood Fern Family Value	R				
Dyspleris Carifusiana Spinulose Wood Fern 5 2 8 5 6 6 X X	R				
Dyspleris Marginalis Marginal Wood Fern 5 5 8 5 5 5 5 5 5 5	R				. ,
Conciderate Continuence	R			<u>'</u>	
Equisetacea Horsetail Family Field Horsetail Field Horsetail	R			i	+
Equisetum Arverse Field Horsetail	R				
Equiselum pratense Meadow Horsetail 8 3 3 5 5 6 5 5 1	R				
GYMNOSPERMS CONIFERS Image: Control of the control of		-			+
Juniperus virginiana Eastern Red Cedar 4 3 S5 G5 X S R S R R R R S D					
Juniperus communis Common Juniper Image: Second of the control of t					
Thuja occidentalis Eastern White Cedar 4 -3 S5 G5 X R U Image: Control of the contr		_			
Picea abies Norway Spruce 5 -1 SE3 G? U U R F Pinus strobus Eastern White Pine 4 3 S5 G5 L3 X					+
Pinus strobus Eastern White Pine 4 3 S5 G5 L3 X					
					<u> </u>
		_			R
DICOTYLED DICOTS DICOTS					The state of the s
Aceraceae Maple Family I I I I I I I I I I I I I I I I I I I					
Acer saccharinum Silver Maple 5 -3 S5 G5 X U R R R D				<u> </u>	
Acer saccharum Sugar Maple 4 3 S5 GST? X D F D D Acer X negundo Manitoba Maple 0 -2 S5 G5 C	U			 I	U
Acer nigrum Black Maple 7 3 S4? G5Q X					U
Acer X freemanii Freeman's Maple SNR GNA L4 U U D D U F					
Anacardiaceae Sumac or Cashew Family I	U				
Toxicodendron radicans ssp. negundo Climbing Poison-ivy 5 -1 S5 G5T X R U U F R U U F F F	0				+
Toxicodendron rydbergil Ground Poison-ivy 0 0 S5 G5T F F U U U U					
Apiaceae Carrot or Parsley Family					
Daucus carota Wild Carrot 5 -2 SE5 G? I U U U U Apocynaceae I	U		U	U	
Apocynum cannabinum Indian Hemp S5 GNR	R				
Asclepiadaceae Asclepiadaceae					
Asclepias syriaca Common Milkweed S5 G5 Asteraceae Composite or Aster Family	U		U	U	
Asteraceae Composite or Aster Family Achillea milliefolium Common Yarrow SNA G5T5?			U		
Ambrosia artemisiifolia Common Ragweed S5 G5	U		U	·	
Ambrosia trifida Giant Ragweed S5 G5	U		U	<u> </u>	
Arctium minus Common Burdock 5 -2 SE5 G?T? I R R U U Symphyotrichum ericoides Heath Aster S5 S5T5	U	_		 I	
Symphyotichum Ianceolatum Tall White Aster 3 -3 S5 G5T? X F U F	U		F	U	
Symphyotrichum lateriflorum Calico Aster 3 -2 S5 G5T5 X R F F F F F U U U					\bot
Symphyotrichum novae-angliae New England Aster 2 -3 S5 G5 C R R S Symphyotrichum puniceus Purple-stemmed Aster S5 S5 G5T? L3 X U U U	U	_	U		
Symphyoticium puniceus Purpie-sterimie Aster S5 G517 L3 X U				. 	
Cirsium arvense Canada Thistle SNA GNR SNA GNR	U			U	
Cirsium vulgare Bull Thistle 4 -1 SE5 G5 I R R				<u> </u>	
Cirsium species Thistle Species U Erigeron annus Eastern Daisy Fleabane 0 1 S5 G5 U		_	U		
Erigeron philadelphicus ssp. philadelphi Fleabane 1 -3 S5 G5T? X R U U	U		U		
Eupatorium perfoliatum Perfoliate Thoroughwort/Boneset 2 -4 S5 G5 X U R R					
Leucanthemum vulgare Ox-eye Daisy SNA GNR GNR GNR GNR GNR GNR GNR GNR	U	-	U		1
Prenanthes altissima Tall White Lettuce 5 3 S5 G5? L4 X U R U U U U F F U	F	- $+$		F	
Solidago canadensis Canada Goldenrod 1 3 S5 G5 X R U U R U F U					+

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ВОТАМ	NICAL NAME	COMMON NAME	icient of Conservatistm	Weediness Index	Provincial Status OMNR Status	Global Status	Status Lambton County	Il Status Huron County																						
			Coeff				Local	Loca	1-Aug-13	17-M	ay-12	31-M	ay-12	31-May-12	2-Ap	or-13	1-May-12	26-Ju	ıl-12			2-Apr-13			14-Jı	un-13	9-Jul-13	4-Jul-13	1-Aug-13	9-May-12
									90	1	17	1	18	119	14	15	172	233	3			290				293		298	340	383
			Oldha m et al Oldha	Oldha m et	aster	ewm aster	Fiedje 2004	Oldha m 1993	CUM1-1	CUP1-3	CUM1-1	SWD2-2	FOD5-2	FOD5-2	FOD6-4	SWD3-3	CUT1b	FOD5a	CUP2-1	FOD7-2	FOD9-3	CUM1-1	FOD7-4	FOD6-1	FOD9-4	CUW1	CUW1	CUM1-1	CUM1-1	FOD6-5
Solidago	flexicaulis	Zig-zag Goldenrod	6 3	3	S5	G5	L	Х						U																
Solidago	gigantea	Giant Goldenrod	4 -:	3	S5	G5		Х				F															U			
Solidago	species	Goldenrod species			SNA	GNRTNF																						F R		
Sonchus Taraxacum	arvensis officinale	Field Sow-thistle Common Dandelion	3	+	SE5	GINRTINE G5	K	1		R	U			U			U										U	K		U
Tragopogon	pratensis	Common Goatsbeard																										U		
Balsaminaceae		Touch-me-not Family																												
Impatiens Borboridaceae	capensis	Spotted Jewelweed	4 -	3	S5	G5		Х				D	U																	
Berberidaceae Podophyllum	peltatum	Barberry Family May-apple	5 3	3	S5	G5		Х						U											U					U
Betulaceae		Birch Family																												
Betula	papyrifera	White Birch		+	0.5								_		_		<u></u>				-			-	U					
Carpinus Corylus	caroliniana ssp. virginiana americana	Blue Beech American Hazel	6 0	U	S5 S5	G5T G5		Х		-		D	F		1		U			-					R U			 		
Ostrya	virginiana	Ironwood	4 4	4	S5	G5		Х				F	U	U	F										U					U
Brassicaceae		Mustard Family		П																										
Alliaria Barbarea	petiolata	Garlic Mustard	0	\rightarrow	SE5	G5 G?		1		-			R	F	U	U	-			F	1			1	F	D	R	R		U
Cardamine	vulgaris concatenata	Yellow Rocket Cut-leaf Toothwort	6 3	-	SE5 S5	G7 G5		X					R	R																U
Capsella	bursa-pastoris	Common Shepherd's Purse			SNA	GNR																				U				
Hesperis	matronalis	Dame's Rocket	5	5 -3	SE5	G4G5		-																	U	U	U			
Caprifoliaceae	dicina	Honeysuckle Family	5 3	2	S5	G5		X		R									R											
Lonicera Lonicera	dioica tatarica	Glaucous Honeysuckle Tartarian Honeysuckle	5 3		SE5	G?		1		K							R		R											
Sambucus	canadensis	Common Elderberry	5 -2	2	S5	G5		Х											R											
Sambucus	racemosa var. racemosa	Red-berried Elderberry	5 2		S5	G5T4T5	5 L3	Х												R										
Sambucus Viburnum	nigra acerifolium	Black-berried Elder Maple-leaf Viburnum	6 5	+	SEH S5	G? G5		X	R					R																
Viburnum	lentago	Nannyberry	4 -	+	S5	G5		Х						R			U										R			
Caryophyllaceae																														
Silene Celastraceae	vulgaris	Bladder Campion Staff-tree Family			SNA	GNR																				U				
Celastrus	scandens	Climbing Bittersweet	3 3	3	S5	G5		Х											R											
Euonymus	obovata	Running Strawberry-bush	6 5		S5	G5		Х					F	F																U
Chenopodiaceae						_																								
Chenopodium Convolvulaceae	album	Common Lambsquaters			SNA	G5TNR																						U		
Convolvulus	arvensis	Field Bindweed			S5	G5																						U		
Cornaceae		Dogwood Family																												
Cornus	alternifolia amomum ssp. obliqua	Alternate-leaved Dogwood Silky Dogwood	6 5 5 -4	-	S5 S5	G5 G5T?		X							1			U	U								R			
Cornus Cornus	racemosa	Grey dogwood	2 -2		S5 S5	G517		X	U		F		U		U	U	U	R		U	F			U	U		U			
Cornus	Rugosa	Round-leaved Dogwood			S5	G5																			U					
Cornus	sericea	Red-osier Dogwood	2 -	3	S5	G5		Х			R						U			U	U	U		U			U			
Dipsacaceae Dipsacus	fullonum ssp. sylvestris	Teasel Family Wild Teasel	-	5 -1	SE5	G?T?		1			U				U					U		R					U	U	U	
Elaeagnaceae	Silani dap. dyreddia	Oleaster Family				3.11																.,								
Elaeagnus	umbellata	Autumn Olive	3	3 -3	SE3	G?	IR	IR	U								U													
Ericaceae	oorniquistus	Heath Family Bird's-foot Trefoil		1 -2	SEE.	G?		1									R													
Lotus Fabaceae	corniculatus	Pea Family		-2	SES	67											ĸ													
Medicago	lupulina	Black Medick			SNA	GNR																				U	U	U		
Medicago	sativa	Alfalfa			S5	G5																						R		
Melilotus Robinia	alba pseudoacacia	White Sweet-clover Black Locust		-	S5 SNA	G5 G5				-					 		-			-	1			1	 		U R	U		
Trifolium	pratense	Red Clover	2	2 -2		G?		1																			R	U		
Trifolium	repens	White Clover			SNA	GNR																						U		
Vicia	cracca	Cow Vetch		\blacksquare	S5	G5																						U		
Fagaceae		Beech Family																												

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ВОТАЙ	NICAL NAME	COMMON NAME	cient of Conservatistm	Wetness Index	Provincial Status OMNR Status	Global Status	status Lambton County	Status Huron County																						
			Soeffie	-			ocal 8	ocal	1-Aug-13	17-M	ay-12	31-Ma	ny-12	31-May-12	2-Ap	or-13	1-May-12	26-Jul	I-12			2-Apr-13			14-Jı	un-13	9-Jul-13	4-Jul-13	1-Aug-13	9-May-12
			0				2	-	90		17	11		119	14		172	233				290				293	0 0 0 10	298	340	383
			dha et dha	tag ta	E in	Ε'n	edje 004	g 8										1												
			oldi m e old	B €	ast	New	Tiec 200	Old 199	CUM1-1	CUP1-3	CUM1-1	SWD2-2	FOD5-2	FOD5-2	FOD6-4	SWD3-3	CUT1b	FOD5a	CUP2-1	FOD7-2	FOD9-3	CUM1-1	FOD7-4	FOD6-1	FOD9-4	CUW1	CUW1	CUM1-1	CUM1-1	FOD6-5
Fagus	grandifolia	American Beech	6 :	3	S5	G5		Х					F	F	R			U							R					F
Quercus	alba	White Oak		-	S5	G5																			U					
Quercus	macrocarpa	Bur Oak	5	+	S5	G5		Х				R		R	U					F	D			U	F					U
Quercus	rubra	Red Oak	6 :	-	S5 S4	G5		Х				R		R										U	U					\vdash
Quercus Geraniaceae	bicolor	Swamp white oak Geranium Family	8 -	-4	54	G5						R																		
Geranium	maculatum	Spotted Geranium	6 ;	3	S5	G5		Х				F	D	F			U													U
Grossulariaceae	madadan	Currant Family															Ü													
Ribes	americanum	Wild Black Currant	4 -	-3	S5	G5		Х				F	U	U			U										U			U
Ribes	cynosbati	Prickly Gooseberry	4	5	S5	G5		Х						F				U	R	U					U					U
Ribes	rubrum	Red Currant		5 -2	SE5	G4G5						U													U					
Ribes	species	Currant Species		\perp	$\perp \perp$	\perp														D										
Guttiferae		St. John's-wort Family																												
Hypericum	perforatum	Common St. John's-wort	1	5 -3	SE5	G?		1	U								R											U		
Hamamelidaceae Hamamelis	virginiana	Witch-hazel Family Witch-hazel	6 :	3	S5	G5		X				U																		
Hydrophyllaceae	· gii ilai la	Water-leaf Family			33	93						3																		
Hydrophyllum	virginianum	Virginia Water-leaf	6 -	-2	S5	G5	L4	х					U	U											F					
Juglandaceae		Walnut Family																												
Carya	cordiformis	Bitternut hickory	6 (0	S5	G5		Х							R	R				U					F					
Carya	ovata var. ovata	Shagbark Hickory	6 ;		S5	G5						U	U	U						R	U			U	D					U
Juglans	nigra	Black Walnut	5 ;	3	S4	G5		Х	U	D	U							U	U	U	R	U	D	R					U	U
Lamiaceae	,	Mint Family		_																										
Lycopus Lauraceae	americanus	Cut-leaved Bungleweed Laurel Family	4 -	-5	S5	G5		Х				U																		
Lindera	benzoin	Spicebush	6 -	-2	S5	G5		Х				F													U					
Menispermaceae		Moonseed Family		_																										
Menispermum	canadense	Moonseed	7 (0	S4	G5		Х						U																
Moraceae																														
Morus	Species	Mulberry Species			\rightarrow	_			R																					
Oleaceae	,	Olive Family																										-		
Fraxinus Fraxinus	americana nigra	White Ash Black Ash	4 ; 7 -	+	S5 S5	G5 G5		X				F		U	U									U	U			R		1
Fraxinus	pennsylvanica	Green Ash	3 -	-	S5	G5	С	^	U	U		F		U		F	U	R	R	D	F		F	U			U	R	U	$\overline{}$
Onagraceae	pa	Evening-primrose Family																											-	
Circaea	lutetiana	Enchanter's Nightshade	3 ;	3	S5	G5T5		Х					F	D				U							U					U
Oenothera	biennis	Common Evening-primrose	$oxed{\Box}$		S5	G5																					U	R		
Orobanchaceae		Broom-rape Family																												
Epifagus	virginiana	Beech-drops	6	5	S5	G5	L4	X						R																R
Oxalidaceae Oxalis	stricta	Wood Sorrel Family Yellow Wood-sorrel	0 ;	3	S5	G5		X											U									U		
Papaveraceae	55.7010	Poppy Family			33	93													<u> </u>									3		
Sanguinaria	canadensis	Bloodroot	5 4	4	S5	G5		Х					U	R																
Plantaginaceae		Plantain Family																												
Plantago	major	Common Plantain		-1 -1	SE5	G5		_										R												
Polygonaceae		Smartweed Family																												
Polygonum	virginianum	Virgina Knotweed	6 (S4 SNA	G5 GNRTNF							U	1											<u> </u>					1
Rumex Rumex	acetosella Crispus	Sheep Sorrel Curly-leaf Dock	1 .	1 -2		GNRTNI G?	IC	1						1											-		U R			1
Primulaceae	Спорио	Primrose Family			. = -	J.	10																				I.			
Lysimachia	nummularia	Moneywort	1	4 -3	SE5	G?		1										R		R							F			
Ranunculaceae		Buttercup Family																												
Actaea	pachypoda	White Baneberry	6		S5	G5		Х					R																	
Actaea	rubra	Red Baneberry	5	5	S5	G5		Х		<u> </u>				1					R						ļ					1
Actaea	species	Baneberry Species	$\perp \perp$	$\perp \perp$		1								R											ļ					U
Anemone	acutiloba	Sharp-Lobed Hepatica	6	-	S5	G5		VU					U	U																1
Anemone	canadensis	Canada Anemone		\rightarrow	S5	G5								1											F					\vdash
Anemone	virginiana var. virginiana quinquefolia	Thimbleweed Wood anemone	7 (S5 S5	G5T G5	Х	X						R			U	U							-					++
Anemone	quiriquerolla	wood anemone	1 / 1	·	SU	G5	X	X		I	ı			K				<u> </u>							l .	ı				

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BOTAN	IICAL NAME	COMMON NAME	ifficient of Conservatistm	Weediness Index	Provincial Status OMNR Status COSEWIC Status	Global Status	al Status Lambton County	al Status Huron County																					
			Coe				Госа	Loc	1-Aug-13		ay-12	31-Ma		31-May-12	2-Ap		1-May-12	26-Jul-12	_		2-Apr-13			14-Jı	ın-13	9-Jul-13	4-Jul-13	1-Aug-13	9-May-12
			- 5	m =				_	90	1	17	11	18	119	14	15	172	233		1	290	T	1		293		298	340	383
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Clematis	virginiana	Virgin's-bower	3 () (S5	G5		Х									U												
Ranunculus	abortivus	Kidney-leaf Buttercup	2 -2	2 5	S5	G5		Х				U		U															
Ranunculus	recurvatus var. recurvatus	·	4 -	+-+	35	G5		X										U											R
Thalictrum Rhamnaceae	dioicum	Early Meadow-rue Buckthorn Family	5 2	2 8	35	G5		X						U															
Frangula	alnus	Glossy Buckthorn	-	1 -3 S	E5	G?		1																		U			
Rhamnus	cathartica	Common Buckthorn	3	3 -3 S	E5	G?		- 1				U			U		U		U	U		U	U			U	U		
Rosaceae		Rose Family																											
Agrimonia	gryposepala	Tall Agrimony	4 0		S5 S5	G5 G5		Х		R							U	R I	₹					U					-
Crataegus Crataegus	crus-galli monogyna	Cockspur Thorn English Hawthorn	4 (+	35	G5 G5	1										U			1	1			1	F	R			
Crataegus	species	Hawthorn species								U	U							R	R			U	U		F	R	F		U
Fragaria	vesca ssp. americana	Woodland Strawberry	4 4	1 8	35	G5T?	L1	Х						U															U
Fragaria -	virginiana	Virginia Strawberry	2 1	++-	SU	G5T?	1	X		F	F						U				1			1					
Geum Geum	aleppicum canadense	Yellow Avens White Avens	3 0	+-+	S5 S5	G5 G5	L2	X				U	U F	F F			U	U I	-	1	1			U		U			
Geum	species	Avens Species	3 (+		GS	1	^				U	F	F					U	+	+			-					U
Malus	pumila	Common Apple	5	5 -1 S	E5	G5		1											R							F	R		
Potentilla	recta	Rough-fruited Cinquefoil	5	5 -2 S	E5	G?	I	ı																		U			
Potentilla	simplex	Common Cinquefoil	5 4		SU	G5	R1	Х						R					_										
Prunus Prunus	avium pensylvanica	Sweet Cherry Pin Cherry	3 4	5 -2 S	E4 S5	G? G5		X					R		U												R		U
Prunus	serotina	Black Cherry	3 3		35	G5		X					R	R				U						F			K		R
Prunus	virginiana	Choke Cherry	2 1		S5	G5T?		Х				F	F	F	U			F											F
Rosa	multiflora	Multiflora Rose		SI	NA	GNR																		U					
Rosa	species	Rose Species	2 2	++-	35	05		· ·											U										
Rubus Rubus	allegheniensis idaeus	Common Blackberry Wild Red Raspberry	2 2		E1	G5 G5T5		Х					U	U	F			U						U		U F	R		
Rubus	occidentalis	Black Raspberry	2 5	+	35	G5		Х		F	U						U									-	R		U
Spiraea	alba	Narrow-leaved Meadow-sweet	3 -4	4 8	35	G5		Х									R												
Rubiaceae		Madder Family	1		\ <u></u>	05																							
Galium Rutaceae	aparine	Cleavers Rue Family	4 3	3 8	S5	G5								U															
Zanthoxylum	americanum	American Prickly-ash	3 5	5 5	35	G5		Х									U	U						U					
Salicaceae		Willow Family																											
Populus	deltoides ssp. deltoides	Eastern Cottonwood			SU	G5T?	1	Х					R								U			U		F		U	
Populus Salix	tremuloides species	Trembling Aspen Willow species	2 0) 8	S5	G5	-	Х				U	U	U			U			+				1		R			R
Salix Salix	amygdaloides	Peach-leaved Willow		,	35	G5	1												_	+	+			1		R R			
Salix X	rubens	Hybrid Crack Willow		4 -3 S		HYB							R								R					U			
Saxifragaceae		Saxifrage Family														_													
Tiarella	cordifolia	False Mitrewort / Foamflower	6 1	1 8	35	G5		Х				U																	
Scrophulariaceae Linaria	linaria vulgaris	Figwort Family Butter & Eggs		CI	NA NA	GNR																				U			
Verbascum	thapsus	Common Mullein	5	5 -2 S		GNR G?	1	1						R	U	R				+				1		U			1
Solanaceae		Nightshade Family																											
Solanum	dulcamara	Bitter Nightshade	C	-2 S	E5	G?		ı				F																	
Tiliaceae Tilia	americana	Linden Family	4 3		35	G5		X				F	U	U	U	U			R	U			U			R	R		U
Ulmaceae	anencana	American Basswood Elm Family	4 3	, 8		G5		^				F	U	U	U	U			К	U			U			ĸ	ĸ		U
Ulmus	americana	White Elm	3 -2	2 5	S5	G5?		Х				F			F	U	U	R						U					
Ulmus	pumila	Siberian Elm			NA	GNR																		U					
Ulmus	rubra	Slippery Elm	6 0) 8	35	G5							R													R			
Violaceae Viola	conspersa	Violet Family Dog Violet	4 -2	2 6	35	G5		X										U											
Viola	pubescens	Yellow Violet	5 4		35	G5		X						U				U		1	1								
Viola	sororia	Common Blue Violet	4 1		35	G5		Х		R				U			U												
Viola	species	Violet Species																						U					
Vitaceae		Grape Family																											

														l																
BOTAN	NICAL NAME	COMMON NAME	officient of Conservatistm Wetness Index	Weediness Index	Provincial Status OMNR Status	Global Status	al Status Lambton County	cal Status Huron County																						
			ő				Loci	2	1-Aug-13		ay-12		ay-12	31-May-12	2-Ap		1-May-12	26-Jul				2-Apr-13			14-Jı	un-13	9-Jul-13	4-Jul-13	1-Aug-13	9-May-12
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			Oldha m et al	a di	New aste	New aste	Tiedje 2004	DIG 199	CUM1-1	CUP1-3	CUM1-1	SWD2-2	FOD5-2	FOD5-2	FOD6-4	SWD3-3	CUT1b	FOD5a	CUP2-1	FOD7-2	FOD9-3	CUM1-1	FOD7-4	FOD6-1	FOD9-4	CUW1	CUW1	CUM1-1	CUM1-1	FOD6-5
Parthenocissus	vitacea	Thicket-creeper	6 1	1	S4?	G5			U	F		F	F					F	F								F			F
Vitis MONOCOTYLEDONS	riparia	Riverbank Grape MONOCOTS	0 -2	2	S5	G5		Х		U				U	U		U	U	U	F					U		D	F		U
Araceae		Arum Family																											_	
Arisaema	triphyllum	Jack-in-the-pulpit	5 -2	2	S5	G5T5		Х		U		U	U	F				U							U					U
Cyperaceae		Sedge Family			0.5	0.50																								
Carex Carex	arctata blanda	Drooping Wood Sedge Woodland Sedge	3 0	0	S5 S5	G5? G5?	L1	X						U R																
Carex	bromoides	Brome-like Sedge	7 -4	4	S5	G5	С	VU				R																		
Carex	deweyana	Dewey's Sedge	6 4	4	S5	G5	L2	Х						R																
Carex Carex	gracillima granularis	Graceful Sedge Meadow Sedge	3 -4	3	S5 S5	G5 G5		X		-		U		U				U R						-						
Carex	lacustris	Lake-bank Sedge	5 -5	5	S5	G5 G5	С					U						N.												
Carex	leptonervia	Finely-nerved Sedge	5 0	0	S5	G4	U	VU						R																
Carex	lupulina	Hop Sedge	6 -5	5	S5	G5		Х				R																		
Carex Carex	pedunculata plantaginea	Long-stalked Sedge Plantain-leaved Sedge	5 5 7 5	5	S5 S5	G5 G5	L2	X				R		R R																
Carex	projecta	Necklace Sedge	, ,		S5	G5	U	RH				U		, ,																
Carex	radiata	Radiate Sedge	4 5	5	S5	G4		Х						U																
Carex	species	Sedge species		-	05	05		· ·												U	U									
Carex Liliaceae	stipata	Awl-fruited Sedge Lily Family	3 -5	5	S5	G5		X				U																		
Allium	tricoccum	Wild Leek	7 2	2	S5	G5	L4	Х																						R
Convallaria	majalis	Garden Lily-of-the-valley	5	5 -2		G5	IR	- 1		R																				
Erythronium	americanum ssp. americanu	·	5 5 7 -	5	S5 S5	G5T5		X					U	R			U													F
Lilium Maianthemum	michiganense canadense	Michigan Lily Wild Lily-of-the-valley	5 0	0	S5	G5 G5		X						R			U		U						U					
Maianthemum	racemosum ssp. racemosu	·	4 3	3	S5	G5T		Х				U	F	F					-						U					U
Maianthemum	stellatum	Star-flowered Solomon's Seal	6 1	1	S5	G5		Х				D						U	U											
Ornithogalum Polygonatum	umbellatum pubescens	Sleepydick True Solomon's Seal	5 5	1 -1	SE3 S5	G2? G5	IR	I X		R				U																
Trillium	erectum	Purple Trillium	6 1	1	S5	G5		X						F																U
Trillium	grandiflorum	White Trillium	5 5	5	S5	G5		Х						F																U
Uvularia	grandiflora	Large-flowered Bellwort	6 5	_	S5	G5								U																
Orchidaceae Epipactis	helleborine	Orchid Family Common Helleborine			SE5	G?								R																
Poaceae	THE MODELLINE	Grass Family			020	J.		·																						
Bromus	inermis ssp. inermis	Awnless Brome	5	5 -3	SE5	G4G5T?		1	R				R		U		U										U	F	D	
Bromus Dactylis	species glomerata	Bromus Species Orchard Grass		3 -1	SE5	G?		1	U				-				U	R	U				-	-	U	U	U	D	U	
Dactylis Echinochloa	crus-galli	Orchard Grass Barnyard Grass	3	J -1	SE5	G7 G5	1	1	, o				1	-			U	R R	U R				1	1			U	U	U	
Elymus	repens	Quack Grass			SNA	GNR																					U			
Festuca	speceis	Fesuca Specis		_	05		1		D	ļ										ļ				-					U	
Glyceria Leersia	striata oryzoides	Fowl Meadow Grass Rice Cut Grass	3 -5	5	S5 S5	G5 G5	1	Х		 		F	-	U				+		 			-	1	U					
Poa	species	Grass Species					1															D						D		
Phalaris	arundinacea	Reed Canary Grass		-	S5	G5		Х		D		U																	U	
Phragmites	australis	Common Reed	0 -4	4	S5	G5		-	U											R		U		-						
Pleum Poa	pratense pratensis ssp. pratensis	Meadow Timothy Kentucky Bluegrass	0 1	1	S5 S5	G5 G5T	1	Х	R F	 	D	 	R	-				U		 			1						F	
Setaria	pumila	Yellow Foxtail	ĽŤ	-	SNA	GNR																		<u> </u>			R			
Smilacaceae		Catbrier Family																												
Smilax	hispida / tamnoides	Bristly Greenbrier	6 0	0	S4	G5Q		X				U		R																
Typhaceae Typha	latifolia	Cattail Family Broad-leaved Cattail	3 -5	5	S5	G5		X																				R		
<u>Dioscoreales</u>																														
Dioscoreaceae																														
Lythrum	salicaria	Purple Loosestrife	7 0		SE5 S4	G5 G5	IC	I X		<u> </u>		U	-							<u> </u>			 	1	<u> </u>					
Menispermum	canadense	Moonseed	/ 0	J	34	G5	Х	X			I	<u>I</u>	L	U							J		L	<u> </u>	<u> </u>	l				

EXPLANATION OF TERMINOLOGY

Botanical and Common Name: From Integrated Taxonomic Information System (IT IS). 2012.

Co-efficient of Conservatism: This value, ranging from 0 (low) to 10 (high), is based on a species tolerance of disturbance and fidelity to a specific habitat integrity.

Wetness Index: This value, ranging from -5 (obligate wetland) to 5 (upland) provides the probability of a species occurring in wetland or upland habitats.

Weediness Index: This value, ranging from -1 (low) to -3 (high) quantifies the potential invasiveness of non-native plants. In combination with the percentage of non-native plants, it can be used as an indicator of disturbance.

Provincial Status: Provincial ranks are used by the NHIC to set protection priorities for rare species and natural communities. These ranks are not legal designations. S4 and S5 species are generally uncommon to common in the province. Species ranked S1-S3 are considered to be rare in Ontario. Local Status:

VU: native and very uncommon

X: native and not rare or very uncommon

C: native and common

R: native and rare

I: introduced and persisting outside of cultivation.

Ir: introduced and rare

Ih: introduced and known only from historic records

Ivu: introduced and very uncommon

lu: introduced and uncommon

Ic: introduced and common

Annotations: Provides comments on general distribution and abundance on the subject lands. Definitions of terminology and abbreviations used as follows.

Abundance

Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation in any one stratum

Fairly common: generally widespread; represented by fairly large numbers of individual clumps; usually forming >10% ground cover

Uncommon: present as widespread scattered individuals or represented by one or more clumps of many individuals

Rare: represented in the polygon by less than about five individuals or small clumps

DETAILED EXPLANATION OF TERMS

Floral Quality Index and Coefficient of Conservatism Values

Vegetation species and community sensitivity was assessed through the application of coefficient of conservatism values (CC), assigned to each native species in southern Ontario (Oldham, et. al, 1995). The value of CC, ranging from 0 (low) to 10 (high), is based on a species tolerance of disturbance and fidelity to specific habitat integrity. The occurrence of species with a CC of 9 or 10 can be good indicators of undisturbed conditions such as mature forests, fens or boos.

General habitat values associated with the CC values are:

- 0-3: species found in a wide variety of communities, including disturbed sites
- 4-6: species associated with a specific community, but tolerate moderate disturbance
- 7-8: species associated with a community in an advanced successional stage, tolerant of minor disturbances
- 9-10: species with a high degree of fidelity to a narrow range of synecological parameters

The floristic quality of an area is reflected in the mean value of CC. For example, an old field or grazed woodlot would tend have a low mean CC; these habitats are dominated by opportunistic species that occur in a wide range of site conditions and are tolerant of disturbance. A bog, prairie or intact forest would have a higher value, reflecting the specific habitat requirements of many of the species and a generally undisturbed condition. The following provides an example of interpretation of CC values:

mean CC value / % spp CC >8 / Condition of the Landscape

5 / 27 / intact

- 3.5 / 19 / slightly degraded
- 1.3 / 2 / severely degraded

The FQI accounts for the species diversity of the area by equating the number of native species with the mean CC value. The FQI is generally used for comparing natural areas. The CC value and FQI of the study area were calculated for the entire study area.

Weediness Index

The sensitivity of natural areas can be assessed through application of the Weediness Index quantifies the potential invasiveness of non-native plants can be used as an indicator of disturbance. Values (ranging from 1- to -3) have been assigned to most non-native species based on the potential impact each species can have in natural areas:

- -1: little or no impact on natural areas (most non-native plants are in this category)
- -2: occasional impacts on natural areas, generally infrequent or localized
- -3: major potential impacts on natural areas

Wetness Index

All plants in southern Ontario have been assigned a wetland category, based on the designations developed for use by the United States Fish & Wildlife Service. Plants are designated into the following categories:

OBL (Obligate Wetland): occurs almost always in wetlands under natural conditions (estimated >99% probability)

FACW (Facultative Wetland): usually occurs in wetlands, but occasionally found in non-wetlands (estimated 67-99% probability)

FAC (Facultative): equally likely to occur in wetlands or non-wetlands (estimated 34-66% probability)

FACU (Facultative Upland): occasionally occurs in wetlands, but usually occurs in non-wetlands (estimated 1-33% probability)

UPL (Upland): occurs almost never in wetlands under natural conditions (estimated <1% probability)

Further refinement of the Facultative categories are denoted by a "+" or "-" to express exaggerated tendencies for those species. The "-" denotes a greater estimated probability occurring in wetlands than species in the general indicator category, but a lesser probability than species occurring in the next higher category. The "-" denotes a lesser estimated probability of occurring in wetlands than species in the general indicator category, but a greater probability than species occurring in the next lower general category.

Each wetland category has been assigned a numerical value to facilitate the quantification of the wetness index. The wetland categories and their corresponding values are as follows:

OBL: -5

FACW+: -4

FACW: -3

FACW-: -2

FAC+: -1

FAC: 0

FAC-: 1

FACU+: 2

FACU: 3

FACU-: 4 UPL: 5

Provincial Status

Provincial ranks are used by the NHIC to set protection priorities for rare species and natural communities. These rankings are based on the total number of extant Ontario populations and the degree to which they are potentially or actively threatened with destruction. The ranks are:

- S1: Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province
- S2: Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province
- S3: Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation
- S4: Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- S5:Secure—Common, widespread, and abundant in the nation or state/province

SH: Possibly Extirpated (Historical)—Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years. A species or community occurred historically in the nation or state/province were destroyed or if it had been extensively and unsuccessfully looked for. The NH or SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences

SNR Unranked—Nation or state/province conservation status not yet assessed

SX: Presumed Extirpated—Species or community is believed to be extirpated from the nation or state/province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered

SNA Not Applicable —A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

SU: Unrankable—Currently unrankable due to lack of information or due to substantially conflicting information about status or trends

Rank ranges, e.g. S2S3, indicate that the rank is either S2 or S3, but that current information is insufficient to differentiate.

S#S# Range Rank —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

REFERENCES

Nomenclature based on:

Integrated Taxonomic Information System (IT IS). 2012: (http://www.itis.gov)

Co-efficient of Conservatism, Wetness & Weediness:

Oldham, M.J., W.D. Bakowsky and D.A. Sutherland. 1995. Floristic quality assessment for southern Ontario. OMNR, Natural Heritage Information Centre, Peterborough. 68 pp.

Provincial (Ontario) Status

Natural Heritage Information Centre (NHIC). 2000. Provincial status of plants, wildlife and vegetation communities database. http://www.mnr.gov.on.ca/MNR/nhic/nhic/nhic.html. OMNR, Peterborough.

Local Status:

Oldham, M.J. 1993. Distribution and Status of the Vascular Plants of Southwestern Ontario. OMNR



Appendix D

Jericho Wind Energy Centre Bat Monitoring Report and Environmental Impact Study Amendment (NRSI, 2013)

DRAFT

JERICHO WIND ENERGY CENTRE Bat Monitoring Report and Environmental Impact Study Amendment

Prepared for:

AECOM 300 Town Centre Blvd., Suite 300 Markham, ON L3R 5Z6

Project No. 1077D Date: August 2013



DRAFT

JERICHO WIND ENERGY CENTRE Bat Monitoring Report and Environmental Impact Study Amendment

Project Team:

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Kaitlin Boddaert	GIS Technician

Report submitted on August 12, 2013

Andrew G. Ryckman

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1.0 Project Description

Natural Resource Solutions Inc. (NRSI) was retained in June 2010 by AECOM, on behalf of NextEra Energy Canada, ULC (NextEra), to conduct a natural environment resource assessment specific to bats and bat habitat, in accordance with the Renewable Energy Approval (REA) Regulation. This assessment included a records review, site investigation, evaluation of significance and impact assessment of any potentially significant bat habitats at a proposed wind energy facility located in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario, and the Municipality of North Middlesex, in Middlesex County, Ontario. This wind energy project is proposed by Jericho Wind, Inc., a wholly owned subsidiary of NextEra. The Project is referred as the Jericho Wind Energy Centre (the "Project"). The Project will be owned and operated by Jericho Wind, Inc. NextEra Energy Canada's indirect parent company is NextEra Energy Resources, LLC.

The proposed Project is located in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in the Municipality of North Middlesex, in Middlesex County, Ontario. The Project study area consists of the areas being studied for the wind energy component, as well as for the interconnection route (i.e., the area being studied for transmission lines to connect the Project to the electrical grid). The Project is proposed to be up to 150MW in size, and consist of 98 GE 1.6-100 Wind Turbine generator locations and pad mounted step-up transformers (however, only approximately 92 turbines will ultimately be constructed), as well as supporting infrastructure and development activities. This includes turbine laydown and storage areas (including temporary staging areas, crane pads, and turnaround areas surrounding each wind turbine), construction laydown areas, a transformer substation and ancillary equipment, 34.5kV electrical collection lines, a 115kV transmission line, turbine access roads, permanent meteorological towers, and an operations/maintenance building and ancillary equipment.

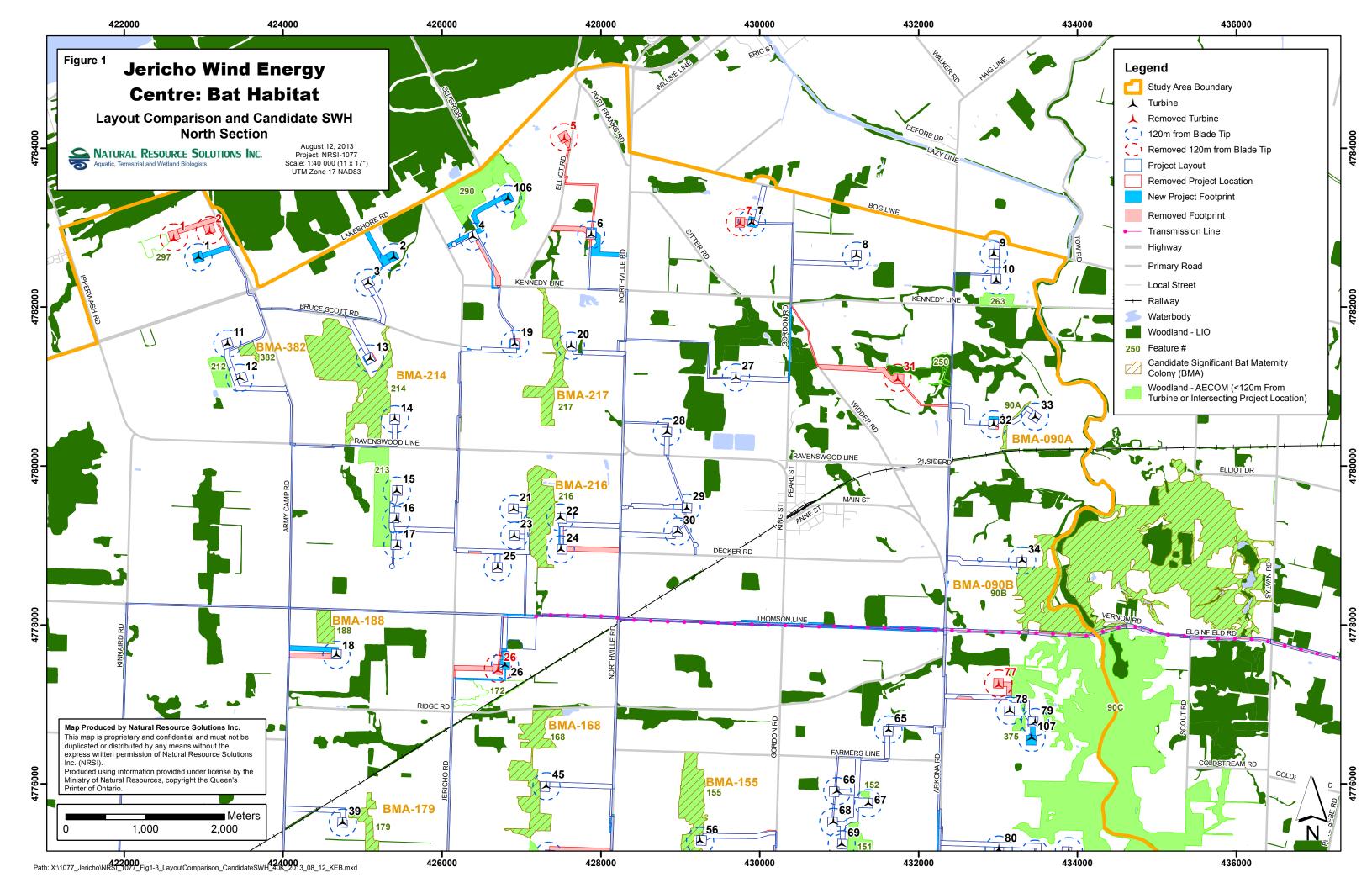
As identified the REA Regulation, the proposed layout of these features is collectively referred to as the 'Project location'. In accordance with Section 25 of the REA Regulation (O. Reg. 359/09 of the Environmental Protection Act), NRSI has conducted a thorough records review of available background resources to identify any potentially

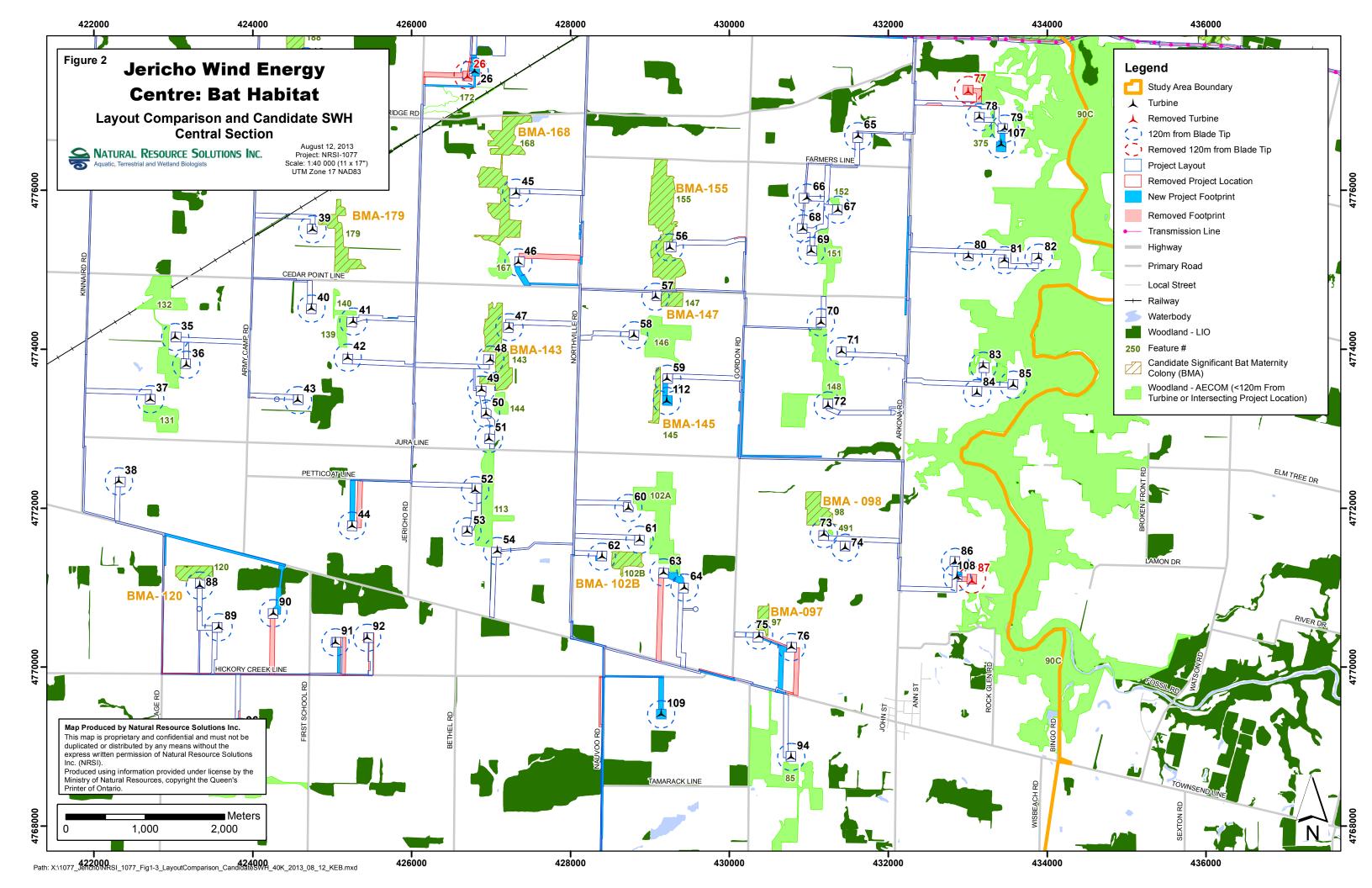
significant natural features within 120m of the Project location. This includes areas within 120m of turbine blade tip as well as other supporting infrastructure and development activities. For the purposes of this report, NRSI will refer to the areas within 120m of the Project location as the 'Project area'.

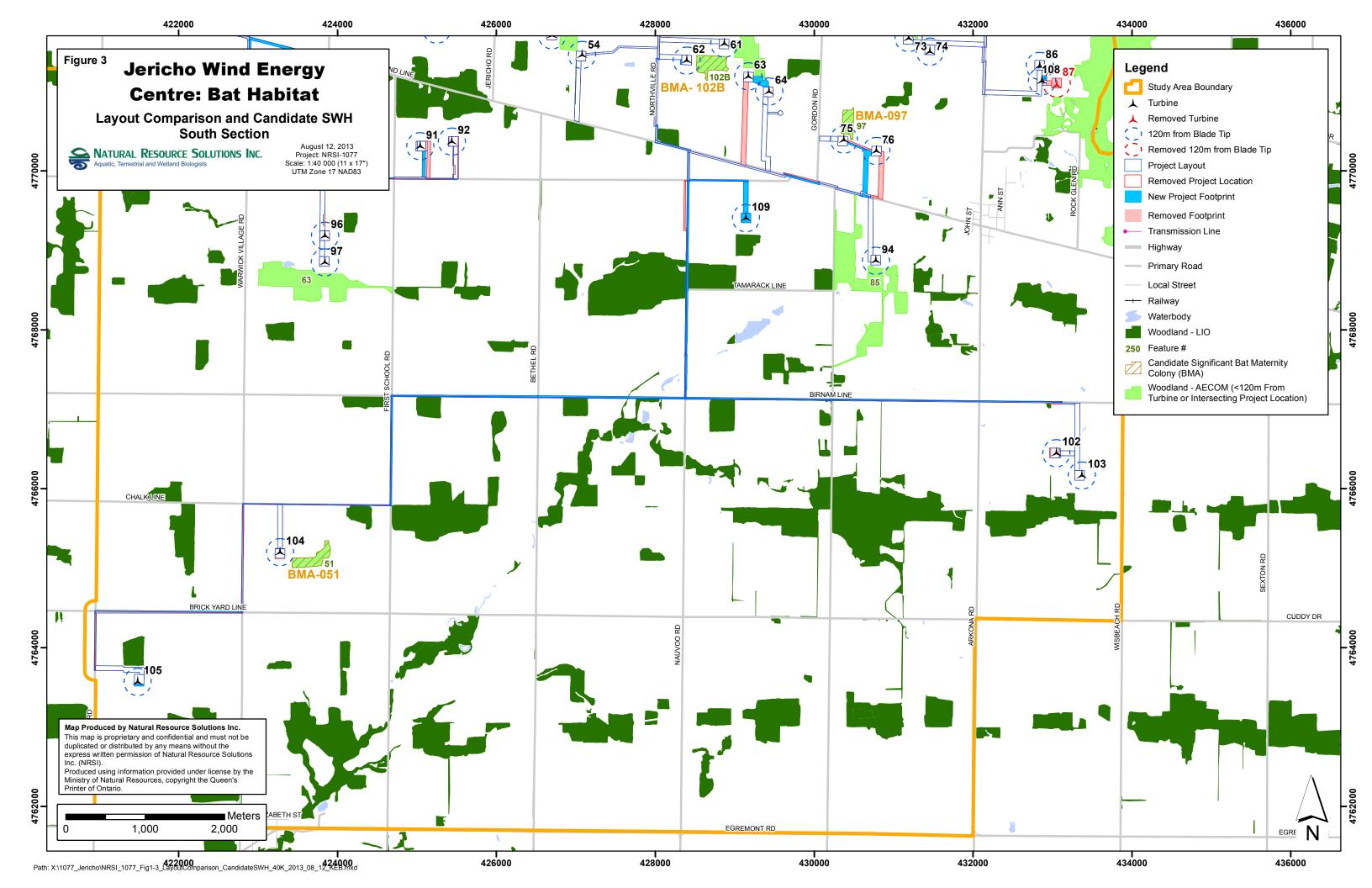
The Project area represents habitat and landscape features typical of a southern Ontario landscape, and is dominated by agricultural habitats, including both actively tilled cropland and pasture. Fallow fields, hedgerows, woodlots, creek valleys and wetlands are also present throughout the Project area.

The records review, site investigation, evaluation of significance, and environmental impact study (EIS) pertaining to bat habitats for the Jericho Wind Energy Centre were completed by NRSI over the course of 2010 to 2012 as part of the Natural Heritage Assessment (NHA). The Jericho Wind Energy Centre NHA (AECOM 2013) confirmation was granted in February 2013 by the Ministry of Natural Resources' Renewable Energy Operations Team. As part of this confirmation, several pre-construction commitments were identified along with the commitment for the proponent to inform the MNR of any changes made to the Project that would alter the NHA.

In order to obtain the greatest efficiency in utilities placement and avoid impacts to other resources in the area, the location of some Project components have been modified from the proposed original location that was presented in the approved NHA. This document identifies and discusses layout changes that have been made to the Jericho Wind Energy Centre Project location as they pertain to bat habitats since receiving the NHA confirmation from the MNR. The updated Project layout addressed in this report is provided in Figures 1-3.







2.0 Staff Roles

The requirements of the REA process indicate that the name and qualifications of all staff participating in the NHA should be provided. This staffing information is provided in the Jericho Wind Energy Centre NHA and its appended Bat Monitoring Report and Environmental Impact Study (AECOM 2012). The qualifications and roles of key staff participating in the amendment to this Project's NHA as it pertains to bat habitats have been outlined below.

Andrew G. Ryckman, B.Sc.

Andrew is a Terrestrial and Wetland Biologist with 8 years of environmental experience. He routinely manages the natural heritage aspects of renewable energy projects, with specific expertise relating to bats and herpetofauna. Andrew is certified in Ecological Land Classification (2010), and has successfully completed a Bat Conservation International (BCI) Acoustic Monitoring Workshop (2008).

Andrew's role in the Project was to act as the project manager, overseeing all aspects of the records review, site investigation, evaluation of significance, and environmental impact study, including all associated field work and reporting.

Christy Humphrey, B.E.S.

Christy is a Terrestrial and Wetland Biologist with more than 3 years of environmental consulting experience, working on a variety of projects tasks. Her areas of expertise are vegetation mapping and floral inventories, as well as acoustic bat monitoring, but she has experience conducting bird assessments, amphibian studies, and other fauna assessments. Christy is certified in both the ELC for Southern Ontario (2010) and Northeastern ELC (2010), as well as the OMNR Wetland Evaluation System (2012). She has also participated in the Ontario MNR Bat Monitoring Workshop for Wind Power Projects (2010) and has received training in Eastern Bat Acoustic Field Techniques (Bat Conservation and Management Inc. 2012).

Christy organized field work for the site investigation, and compiled, interpreted, and reported on the results of the site investigation. She was the primary author of this report.

Jessica R. Walker, M.E.S.

Jessica graduated from the University of Waterloo with a B.E.S. and an M.E.S. in Environmental Studies. She has a wide range of field skills including bird, amphibian, reptile, bat, and plant identification, and she is certified in the ELC System for Southern Ontario (2012).

Jessica conducted site specific habitat assessments for the Jericho Wind Energy Centre, quantitatively assessing the number of cavity trees per hectare within woodlands.

3.0 Overview of Project Changes

In the time since MNR confirmation was received for the Jericho Wind Energy Centre's NHA, several minor changes have been made to this Project's layout, resulting in adjustments to the NHA. The types of changes made and addressed in this report include:

- Distances from Project components to natural features
- · Removal and addition of turbines
- Access road and collection line routes
- Disturbance area modifications

Many changes to the Project layout are minor with minimal changes to the overall Project area. Layout alterations that resulted in re-positioning Project components <5m away from their NHA submission position, that remained within the same land use as described in the NHA, and that did not result in the inclusion of additional natural features, will be considered insignificant and will not be specifically addressed in this report. Likewise, changes to the layout that resulted in land no longer being included in the Project area will not be discussed unless a bat habitat is no longer within 120m of the Project location and no longer requires consideration in the NHA.

Changes made to the Jericho Wind Energy Centre Project layout are outlined and discussed in Tables 1 and 2. Figures 1 to 3 provide a visual overlay of the differences between the NHA submission layout and the layout presented in this amendment, specific to areas where it relates to bat habitats, with notable changes highlighted. The Jericho Wind Energy Centre Project layout presented in the original NHA submission is provided for reference in Appendix II.

Table 1. Changes to the Jericho Wind Energy Centre Layout

Project Component	Location	Description of Change	Closer to Features or Habitat Within 120m?	Affected Bat Habitats with a Potential Operational Effect	Reference Figure(s)
Turbine, Access Road, Collection, Disturbance Area	Turbine 1	Turbine and associated infrastructure have been shifted south.	No new bat habitats overlap the Project area. One woodland (assumed significant wildlife habitat for bat maternity colonies due to a lack of site access) is no longer within 120m of the Project location.	Feature 297	1
Turbine, Access Road, Collection, Disturbance Area	Turbine 2	Turbine and associated infrastructure have been moved to a different parcel.	One new natural area is found within 120m of the Project location (feature 293). A site investigation for bat maternity colonies was not completed for this habitat as AECOM's ELC information indicates the portion of this habitat within 120m of the proposed turbine location is a cultural woodland, thus not representing suitable bat habitat.	None	1
Turbine, Access Road, Collection, Disturbance Area, Meteorological Tower	Turbine 106	Turbine and associated infrastructure have been added, as well as a meteorological tower (west of T4).	One new woodlot overlaps the Project area, and is within 120m of a turbine. This woodlot requires a site investigation to determine if it qualifies as candidate significant bat maternity colony habitat.	Feature 290 (requires site investigation)	1
Turbine, Access Road, Collection, Disturbance Area	Turbine 5	Turbine and associated infrastructure have been removed.	No new candidate bat habitats overlap the Project area. One woodland (considered generalized candidate significant wildlife habitat for bat maternity colonies) is no longer within 120m of the Project location, where collection cabling travelled between T5 and T6.	None	1
Turbine, Access Road, Disturbance Area	Turbine 19	Turbine and associated infrastructure have been shifted slightly west.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	1
Access Road, Collection, Disturbance Area	Turbine 4	Access road and disturbance area shifted to enter private property off of Jericho Road instead of Kennedy Line. The collection has also shifted slightly with removal of access road from this	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	1

		area.			
Access Road, Collection, Disturbance Area	Turbine 6	Access road, collection, and disturbance area have been modified slightly. Access road will enter private land off of Northville Road instead of Elliot Road.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	1
Access Road, Collection, Disturbance Area	Turbine 13	Turbine, access road, collection, and disturbance area have been shifted slightly west.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	1
Turbine, Access Road, Collection, Disturbance Area	Turbine 7	Turbine and associated infrastructure have been shifted east.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	1
Turbine, Access Road, Collection, Disturbance Area	Turbine 31	Turbine and associated infrastructure have been removed.	No new candidate bat habitats overlap the Project area. One woodland, confirmed not to be a candidate significant bat maternity colony habitat (Feature 250), is no longer within 120m of a turbine, but it still within 120m of other infrastructure. As it was not identified as candidate habitat, it is not considered to be generalized candidate significant wildlife habitat for bat maternity colonies.	None	1
Disturbance Area	Turbine 32	The disturbance area around Turbine 32 has been modified slightly.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	1
Access Road, Collection, Disturbance Area	Turbine 24	Access road has been shifted to access the turbine from Turbine 22 instead of Northville Road.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	1
Access Road, Collection, Disturbance Area	Turbine 18	Access road, collection, and disturbance area have been shifted slightly north.	No new candidate bat habitats overlap the Project area. There are minor changes in distance between Project components and an assumed significant bat maternity colony habitat (BMA-188).	None	1
Turbine, Access Road, Collection, Disturbance Area	Turbine 26	Turbine has been shifted slightly northeast. Its access road has been shifted to access the turbine from Thomson Line instead of	No new candidate bat habitats overlap the Project area. A woodland confirmed not to be a candidate significant bat maternity colony habitat (Feature 172) is no longer within 120m of a turbine. This feature is closer to other Project components, however it will	None	1, 2

		Jericho Road. Collection cabling has been shifted to follow the access road and more closely follow the edge of Feature 172.	not be considered generalized candidate significant wildlife habitat for bat maternity colonies.		
Access Road, Collection, Disturbance Area	Turbine 46	Access road has been shifted to access the turbine from Cedar Point Line instead of Northville Road.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2
Turbine, Access Road, Collection, Disturbance Area	Turbine 112	Turbine and associated infrastructure have been added.	No new candidate bat habitats overlap the Project area, as T59 is already within 120m of the adjacent bat habitat (BMA-145). There are minor changes in distance between Project components and this habitat.	BMA-145	2
Turbine, Access Road, Collection, Disturbance Area	Turbine 77	Turbine and associated infrastructure have been removed.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2
Turbine, Access Road, Collection, Disturbance Area	Turbine 107	Turbine and associated infrastructure have been added.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2
Access Road, Collection, Disturbance Area	Turbine 44	Access road, collection, and disturbance area have been shifted west.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2
Access Road, Collection, Disturbance Area	Turbine 90	Collection line has been added along Townsend Line and Access Road, collection, and disturbance area for T90 has been shifted to access the turbine from Townsend Line instead of Hickory Creek Line. Infrastructure will follow an existing trailway between 2 wooded features.	Two new woodlands are found within the Project area (features 118 and 119). The access road, collection, and disturbance area for T90 will follow an existing laneway and will not result in vegetation removal within these features. As a result these will be considered generalized candidate significant wildlife habitat as they are not overlapped by the project location, nor are they within 120m of a Project component with an operational effect (turbine).	None	2
Access Road, Collection, Disturbance Area	Turbine 91	Access road, collection, and disturbance area for Turbine 91 have shifted slightly west.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3

Access Road, Collection, Disturbance Area	Turbine 63, Turbine 64	Access road, collection, and disturbance area have been removed from Townsend Line to T63 and added to connect T63 to T64.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3
Access Road, Collection, Disturbance Area	Turbine 76, Turbine 75	Access road, collection, and disturbance area to T76 have been shifted west and collection line to T75 has been shifted slightly south.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3
Turbine, Access Road, Collection, Disturbance Area	Turbine 109	Turbine and associated infrastructure have been added.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3
Collection, Disturbance Area	Nauvoo Road and Hickory Creek Line	Collection and disturbance area have been shifted off of private property and into the road right-of-way.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3
Turbine, Disturbance Area	Turbine 108	Turbine and associated infrastructure have been added.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3
Turbine, Access Road, Collection, Disturbance Area	Turbine 87	Turbine and associated infrastructure have been removed.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3
Disturbance Area	Turbine 102	Disturbance area has been shifted slightly east.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	2, 3
Disturbance Area	Turbine 104	Disturbance area has been shifted slightly north.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	3
Turbine, Access Road, Collection, Disturbance Area	Turbine 105	Turbine and associated infrastructure have been shifted slightly south.	No new candidate bat habitats overlap the Project area. There are also no resulting changes in distances between Project components and previously assessed bat habitats.	None	3

4.0 Amendments to the Records Review

The study area initially examined for the Jericho Wind Energy Centre Records Review Report extended beyond the previously proposed Project area to help compensate for any later changes in the Project's layout. Because the Project location has not changed considerably, all records examined in the approved Natural Heritage Assessment apply to the new Project location. Thus, there are no amendments to confirmed or candidate bat habitats needed for the purpose of the NH Records Review. Please refer to the Jericho Wind Energy Centre Records Review Report (AECOM 2013) and its appended Bat Monitoring Report and Environmental Impact Study (NRSI 2013) for a summary of records obtained.

5.0 Amendments to the Site Investigation

Through reviewing the changes made to the Jericho Wind Energy Centre layout since its NHA confirmation, it has been verified that these alterations have led to changes in distance between Project components and significant bat habitats as well as the addition of 1 woodland (290) which will require a site investigation to describe the potential for significant bat habitat. This results from the addition of a turbine within 120m of the woodland. As part of a review of a larger Project area, the site investigation of this woodland was conducted in May 2012. In accordance with the REA Regulation, NRSI recorded the date, time, duration, and weather conditions during the site investigation. This information has been summarized in Table 2 below. The crew lead for the survey is indicated in bold font within the table. Detailed descriptions of staff roles and qualifications can be found above, and detailed field forms have been appended to this report (Appendix I).

Table 2. Site Investigation Survey Dates

Purpose	General Methods	Feature ID	Date(s)	Time(s) and Duration	Weather	Staff
Bat Habitat Assessment	Quantitative assessment of wildlife trees	290	May 16, 2012	12:45 – 16:00 3 hrs 15 minutes	12°C, 80% Cloud Cover, Wind speed 5.	Jessica Walker , Jeremy Bannon

5.1 Identification of Bat Habitat

The Significant Wildlife Habitat Technical Guide Ecoregion 7E Criterion Schedule (OMNR 2012) outlines different types of bat habitats which may qualify as candidate significant wildlife habitat and which must be investigated for Natural Heritage Assessments. These include bat hibernacula, bat maternity colonies, and bat migratory stopover areas. Candidate significant bat hibernacula are found in caves, mine shafts, underground foundations, karsts or one of the following Community Types: Crevice (CCR), Cave (CCA). They do not include buildings (OMNR 2012). Bat maternity colonies can be found in any of the following Community Types: Deciduous Forest (FOD), Mixed Forest (FOM) that have greater than 10/ha wildlife trees (snags or cavity trees) which are greater than 25cm diameter at breast height (DBH). Maternity colonies can be found in tree cavities, vegetation and often in buildings (buildings are not

considered to be SWH). Maternity roosts are not found in caves and mines in Ontario (OMNR 2012). The location and characteristics of bat migratory stopover areas are generally unknown (OMNR 2012) and as a result are not able to be identified at this point.

The site investigation conducted for the woodland (290) which is proposed to be located within 120m of a turbine (T106) followed the most recent OMNR guidance document, *Bats and Bat Habitats: Guidelines for Wind Power Projects* (2011), which indicates that the number of cavity trees per hectare can be determined using 0.05ha plots (circular plots with a radius of 12.6m), which are randomly placed throughout each woodland being investigated. The document stipulates that a minimum of 10 plots should be used for woodlands which are 10ha or less in size, with one additional plot for every additional hectare for larger woodlands (up to a maximum of 35 plots). NRSI followed this protocol, randomly selecting circular plots 12.6m in radius within the portions of these woodlands for which access was granted. The number of cavity trees within these plots which were greater than 25cm DBH were counted. Field notes for these assessments are appended to this report (Appendix I).

5.2 Site Investigation Results

NRSI used habitat criteria outlined by the Significant Wildlife Habitat Ecoregion 7E Criterion Schedule (OMNR 2012) and Bats and Bat Habitat Guidelines (OMNR 2011) to compare site-specific habitat conditions to potential bat habitats. No candidate bat hibernacula were identified by NRSI or AECOM biologists within the revised Jericho Wind Energy Centre. NRSI also conducted assessments to determine the potential for candidate significant bat maternity colonies to occur in the additional woodland.

Feature 290 contains natural forested habitat within 120m of a proposed turbine. As a result, this woodland requires a determination of the presence of candidate significant bat maternity colony habitat using a plot-based approach to calculate the number of cavity trees per hectare within the woodland. The results of this exercise are included in Table 3 below. All of the woodlands in the Jericho Wind Energy Centre which have been identified as candidate significant bat maternity colony habitats are identified on Figures 1-3.

Table 3. Summary of Site Investigation Results and Consideration for Candidate Significant Bat Habitats

			Quantitative A	Evaluation of	
Feature ID	Size (ha)	Composition	Number of Sample Plots	# Wildlife Trees per ha	Significance Required (Y/N)
290	35.1	FOD7-2 FOD9-3 FOD6-1 FOD7-4 SWD	27*	5.19	No

^{*}Note the number of plots sampled was limited by the size of forest found on properties for which access was granted.

In addition, NRSI biologists have also reviewed the potential for additional generalized candidate significant wildlife habitat (GCSWH) that may be present within 120m of the updated Project location. Feature 286 was previously considered GCSWH but is no longer within 120m of the Project location, and will no longer be considered GCSWH for bat maternity colonies. Features 118 and 119 were not previously within 120m of the Project location but are now adjacent to, without overlapping, a proposed access road, collection cabling, and disturbance area leading to T90. As a result, these 2 woodlands will be considered GCSWH for bat maternity colonies.

5.3 Changes in Distances to Bat Habitats

Project layout alterations have led to changes in distance between Project components and significant or presumed significant bat habitats. Each of these specific instances has been outlined below in Table 5, including feature identification number and comparison of distances from Project location to the bat habitat between the presented layouts.

Table 4. Updated Distances between Project Components and Bat Habitats in the Jericho Wind Energy Centre Project Area

Feature ID	Feature Type	Distances from NHA Submission (m)	New Layout Distances (m)	Amendment to the EOS and/or EIS Required? (Y/N)
BMA- 145	Bat Maternity Colony	WT – 36.5 (T59) AR – 87 CA – 48 SI – 31	WT – 36.5 (T59) AR – 37 CA – 46 SI – 30	No – EOS completed with NHA. Distances did not change enough to warrant amendment to the EIS.
BMA- 188	Bat Maternity Colony	WT - 92.5 (T18) AR - >120 CA - 4 SI - 4	WT – 92.5 (T18) AR – 80 CA – 4 SI – 4	No - EOS completed with NHA. Distances did not change enough to warrant amendment to the EIS.
BMA- 297	Bat Maternity Colony	WT – 31.5 (T1) AR – 82 CA – 82 SI – 29	WT - >120 AR - >120 CA - >120 SI - >120	Yes. EOS completed with NHA (Assumed Significant). The feature is no longer within 120m of the Project location and as a result does not require mitigation or monitoring outlined in the EIS.

Legend WT: Wind Turbine SI: Supporting Infrastructure (Laydown area, disturbance area, or MET station)

EOS: Evaluation of Significance EIS: Environmental Impact Study AR: Access Road CA: Cabling

6.0 Amendments to the Evaluation of Significance

As part of this NHA amendment, NRSI biologists have reviewed the potential for changes to the Evaluation of Significance phase of this Project. After examining the changes in distances between Project components and natural features and completing a site investigations of 1 new natural feature, it has been determined that there are no new candidate significant bat habitats that potentially exist within 120m of the Project location that were not previously studied and discussed in the approved NHA. Therefore, no additional bat habitats require evaluation of significance at the Jericho Wind Energy Centre as a result of these modifications.

7.0 Amendments to the Environmental Impact Study

As part of this Jericho Wind Energy Centre NHA Amendment preparation, construction plans were reviewed and the changes to the presented Project location have been summarized in Section 3.0. These proposed changes include minor modifications to several aspects of the Project layout, including access roads, cabling, and disturbance areas, as well as the removal and addition of several turbines. Although adjustments have been noted, the construction details as presented in the original Natural Heritage Environmental Impact Study (i.e. site preparation and servicing, construction, operation, decommissioning, and approach to impact assessment) still provide relevant information pertaining to the type, extent, duration, and details of the proposed construction activities associated with the Jericho Wind Energy Centre.

For the purposes of this amendment, NRSI has reviewed three separate aspects relating to the potential for change to the EIS, as follows:

- Changes to Mitigation Measures (i.e. Project location now closer to a previously identified bat habitat)
- New Mitigation Measures (i.e. Project location within 120m of a new bat habitat)
- Changes to Monitoring Requirements

7.1 Changes to Mitigation Measures

NRSI biologists have reviewed the changes in Project location, including the distances of the Project location to the significant natural features, and have determined that the mitigation measures presented in the Natural Heritage Assessment (AECOM 2013) and its appended Bat Monitoring Report and Environmental Impact Study (NRSI 2013) are still suitable for the protection of the significant bat habitats from permanent and adverse impacts that may result from the development of the Jericho Wind Energy Centre.

Two new generalized candidate significant wildlife habitats for bat maternity colonies were identified as a result of an access road and collection cabling modification (features 118 and 119). Mitigation measures outlined within the original NHA are still suitable for the protection of these potential habitats during the construction of the Project. Refer to the original NHA for a list of these mitigation measures (AECOM 2013, NRSI 2013).

There are two changes required to mitigation measures outlined within the original Environmental Impact Study. One feature previously assumed significant for a bat maternity colony habitat (feature 297) and one feature previously considered generalized candidate significant wildlife habitat for bat maternity colony habitat (feature 286) are now no longer found within 120m of the project location. As a result, these habitats no longer require the mitigation measures outlined within the Natural Heritage Environmental Impact Study (AECOM 2013) and its appended Bat Monitoring Report and Environmental Impact Study (NRSI 2013).

There are no other changes required to the mitigation measures.

7.2 New Mitigation Measures

There were no additional significant bat habitats located within the Project area as a result of the proposed changes, therefore there are no new mitigation measures which need to be implemented for this Project.

7.3 Changes to Monitoring Requirements

One feature previously assumed significant for bat maternity colony habitat (feature 297) and one feature previously identified as a generalized candidate significant wildlife habitat for bat maternity colony habitat (feature 286) are now located further than 120m from the project location, and as a result do not require monitoring associated with operation or construction mitigation measures.

Based on the proposed changes in Project location, NRSI has determined that all other monitoring requirements identified in the Jericho Wind Energy Centre Natural Heritage Environmental Impact Study (AECOM 2013) and its appended Bat Monitoring Report and Environmental Impact Study (NRSI 2013) are suitable for the monitoring of potential environmental effects at the proposed Jericho Wind Energy Centre.

8.0 Summary and Conclusions

In accordance with the REA Regulation, NRSI biologists have completed a comprehensive records review, site investigation, evaluation of significance, and EIS of the Jericho Wind Energy Centre Project area. Following the review of proposed adjustments to the Project location (as discussed above), NRSI has re-considered all aspects of the Natural Heritage Assessment for bats within this report to determine if there are new bat habitats, changes in distance to Project location, or new mitigation measures or monitoring commitments required to ensure that potential permanent or adverse environmental impacts for bats are mitigated or studied appropriately. The summary of the result of this review of changes to the Project location are summarized in Table 5 below.

Table 5. Summary of Natural Heritage Amendment for the Jericho Wind Energy Centre

Amendment Changes	Amendment Result
Significant Bat Habitats	There are no new significant bat habitats identified within 120m of the Project location.
Changes in Distances to Project Location	The distances from the Project location to candidate and significant bat habitats have changed due to minor adjustments to the Project layout. These minor changes in distances to Project location are associated with a total of 3 bat habitats. These changes are limited to Project components without an operational effect for 2 of the habitats. The 3 rd habitat is no longer within 120m of any project component (feature 297).
	Changes in distances from the Project location to significant bat habitats are shown in Table 4 of this report.
	Based on the minor adjustments of the Project location, NRSI biologists have identified no additional significant features within 120m of the Project location that require mitigation measures to be applied.
Mitigation Measures	One feature identified as assumed significant bat maternity colony habitat (feature 297) and one feature identified as generalized candidate significant wildlife habitat for bat maternity colonies (feature 286) are no longer within 120m of the project layout, and as such do not require mitigation measures outlined within the original EIS to be applied.
	All other mitigation measures, as seen in the Natural Heritage Environmental Impact Study and its appended Bat Monitoring Report and Environmental Impact Study (AECOM 2013, NRSI 2013) will provide the appropriate protection to ensure any permanent and adverse impacts are mitigated.
	One feature identified as assumed significant bat maternity colony habitat (feature 297) and one feature identified as generalized candidate significant wildlife habitat for bat maternity colonies (feature 286) are no longer within 120m of the project layout, and as such do not require monitoring associated with mitigation measures outlined within the original EIS to be applied.
Monitoring Commitments	NRSI has identified that, based on the minor shifts in Project location, the monitoring commitments outlined in the Natural Heritage Environmental Impact Study and its appended Bat Monitoring Report and Environmental Impact Study (AECOM 2013, NRSI 2013) are still appropriate to monitor any potentially adverse impacts as a result of the construction and operation of this Project.
	No additional monitoring requirements are proposed as a result of the changes in Project location.

With this amendment, it is maintained that with the implementation of the planned mitigation measures, monitoring programs, and contingency plans as presented in the Jericho Wind Energy Centre Natural Heritage Environmental Impact Study (AECOM 2013) and its appended Bat Monitoring Report and Environmental Impact Study (NRSI 2013) there are unlikely to be any significant impacts to bat habitats.

9.0 References

Publications

- AECOM. 2013. Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report. Prepared for NextEra Energy Canada, ULC. February 2013. 338pp plus appendices.
- Natural Resource Solutions Inc. (NRSI). 2013. Jericho Wind Energy Centre Bat Monitoring Report and Environmental Impact Study. Prepared for AECOM. February 2013. 93pp plus appendices.

Appendix I Site Investigation Field Notes	

Candidate Bat Maternity Roost Data Form

Use this form in FOD, FOM, SWD, SWM

NATURAL RESOURCE SOLUTIONS INC. Aquatic, Terrestrial and Wetland Biologists

Office Use Only: Woodland Number:

290

Page 1 of 2

Start Time 12:45

Project #: <u>1677-B</u> Project Name: Jerocho End Time 16:00

Date: May 16, 2012

Observer(s):

JBB JRW

Area # 290	Parcel Numbers_	1014, 3454		Weather Conditions: 12 °C, Wind; 5, cc; 80%
Plot Number	# live or dead cavity trees ≥ 25cm dbh	Plot Center UTM	(Zone: <u>17</u> +)	Comments
Plot 1	0	0426723	4783916	
Plot 2	0.	0426719	4783876	7m onway
Plot 3	0.	0426740	4783833	
Plot 4	0	6426772	4783881.	
Plot 5	0	0426794	4783768	
Plot 6	150	0426854	4783731	
Plot 7	0	0426859	4783710	
Plot 8	Ver 2	0426869	4783701	
Plot 9	Tax :	0426871	4783677	
Plot 10	0	0416896	4783674	
Plot 11	0	0426912	4783653	
Plot 12	F F	0426915	4783622	
Plot 13	0	0426937	4783600	i i
Plot 14	0	3426966	4783572	
Plot 15	O.	0427610	47,83458	
Plot 16	[2]	3426990	4785352	
Plot 17	\$ 10	6926 975	4783281	
Plot 18	Ö	0426949	4783151	
Plot 19	0	0426467	4783056	
Plot 20	0'	0427007	4783150	
Plot 21	0-	0426988	4783259	
Plot 22 /	0	0486523	4783321	
Plot 23	0	0426463	4783290	
Plot 24	-	0426436	4783274	>PLA do not count
Plot 25	1	64126352	4783194	
Piot 26		0426994	4783488	
Plot 27	0	642 6 999	4783563	
Plot 28	G.	0426955	47 83640	
Plot 29	0	0426948	4783676	
Plot 30	0	6426893	4783729	
Plot 31	_ 0	0126823	4783797	
Plot 32	0	0426685	4783499	
Plot 33	0	0426290	4703604	
Plot 34	0	0426554	4783782	
Plot 35	۵	04126618	4783842	

A PLA Number of Plots: Sites ≤10ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots)

Plots = 0.05ha or 12.6m radius

Select plots randomly

All starred points were conducted @ property line chalf points).

fy the best candidate wildlife trees in the applicable w Tree # Species		# of Cavities	DBH (cm)	UTM		Photo Number(s)
1	Freemans Maple	2	52	0426819	4183755	955 956
2	Freemans Maple		58	0426463	4703739	957.958.959
3	Sugar Maple? Dead	3	off properly	0426354	4783638	960
4	9 1					111111111111111111111111111111111111111
5						
6						
7						
8						
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11						
12						
13						
14						
15						

This Section Office Use Only

Formula: Total # Candidate Trees / (# Plots x 0.05ha)

27.40.05) = 7/1.35= 5.19 >10/ha? Yes No

If >10/ha:

