

ELC	SITE: <i>Blw 514 A114</i>	
	POLYGON:	
WILDLIFE	DATE: <i>Oct 20, 2011</i>	
	SURVEYORS: <i>JD, TS</i>	
	START TIME:	END TIME:

TEMP (°C): <i>14°C</i>	CLOUD (10th): <i>overcast</i>	WIND: <i>20 km</i>	PRECIPITATION: <i>Light</i>
CONDITIONS: <i>cold, windy, fair</i>			

POTENTIAL WILDLIFE HABITAT:

VERNAL POOLS	SNAGS
HIBERNACULA	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	<i>Sava. Sparrow</i>	<i>OB</i>							
B	<i>Juncos</i>	<i>OB</i>							
B	<i>Chimney Swift</i>	<i>OB</i>							
B	<i>Blue Jay</i>	<i>OB</i>							
B	<i>Am. Crow</i>	<i>OB</i>							
B	<i>W. Ch. Sparrow</i>	<i>OB</i>							
B	<i>Killdeer</i>								
B	<i>Turkey Vulture</i>								

FAUNAL TYPE CODES (TY):
 B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):
 BREEDING BIRD - POSSIBLE:
 SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
 T = TERRITORY D = DISPLAY P = PAIR
 A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
 DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
 NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
 AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
 OB = OBSERVED VO = VOCALIZATION CA = CARCASS
 DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
 TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
 S = OTHER SIGNS (specify)

Bluewater Feature: 514_BLW1658

(Additional properties to be surveyed due to changes in the Collected & Road layout)



October 17, 2011



- Roads
- Access/Collection Line
- Survey 1/4 Channel
- Turn of Buffer (171.5m)
- PI Survey Completed
- Turbine Buffer/Feasibility Interest
- Property File #
- Bluewater Wind Energy, Canada



ELC
Community
Description and
Classification

Site: Blw S14 A114 Polygon: P2
 Surveyor(s): JD + JS Date: Oct 20, 2011 Time start: finish:
 UTMZ: N T UTMZ: 4816659 UTMN: 075040

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input 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"/> Rivine	<input type="checkbox"/> Submerged	<input type="checkbox"/> Pond
<input type="checkbox"/> Aquatic	<input type="checkbox"/> Parent Min.	<input type="checkbox"/> Bottomland	<input type="checkbox"/> Floating-LVD	<input type="checkbox"/> River
	<input type="checkbox"/> Acidic Bedrk	<input type="checkbox"/> 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 type="checkbox"/> Tableland	<input type="checkbox"/> Lichen	<input checked="" type="checkbox"/> Swamp
<input checked="" type="checkbox"/> Surficial Dep.	<input type="checkbox"/> Bedrock	<input type="checkbox"/> Roll. Upland	<input checked="" type="checkbox"/> Bryophyte	<input type="checkbox"/> Fen
<input type="checkbox"/> Mistry		<input type="checkbox"/> Cliff	<input type="checkbox"/> Deciduous	<input type="checkbox"/> Bog
<input checked="" type="checkbox"/> Natural	<input type="checkbox"/> Natural	<input type="checkbox"/> Talus	<input type="checkbox"/> Coniferous	<input type="checkbox"/> Barren
<input type="checkbox"/> Cultural		<input type="checkbox"/> Crevice/Cave	<input type="checkbox"/> Mixed	<input type="checkbox"/> Meadow
<input type="checkbox"/> Cover		<input type="checkbox"/> Alvar	<input type="checkbox"/> Rockland	<input type="checkbox"/> Prairie
<input type="checkbox"/> Open		<input type="checkbox"/> Beach / Bar	<input type="checkbox"/> Sand Dune	<input type="checkbox"/> Thicket
<input type="checkbox"/> Shrub		<input type="checkbox"/> Bluff		<input type="checkbox"/> Savannah
<input checked="" type="checkbox"/> Treed				<input type="checkbox"/> Woodland
				<input type="checkbox"/> Forest
				<input type="checkbox"/> Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	2	3	Silver maple > Ash sp. → white Birch
2			
3			
4			

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

Stand Composition Stand Class Analysis: Standing Energy: < 10 10-24 > 25-50
 Deadfall/Log: < 10 10-24 25-50
 Abundance Codes: N = None R = Rare O = Occasional A = Abundant

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

Soils: SW03
 Vegetation Type: SW03A1
 Inclusion:
 Comments:

Community Profile Diagram/Comments

Notes: could not access due to high waters

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.	Prism Factor
							2
TOTAL						100	
BIOM. AVAILABLE							

Soils Ontario and ELC Soils Description

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

Notes:

ELC WILDLIFE	SITE: <u>RTW 514</u>	
	POLYGON: <u>P1</u>	
	DATE: <u>Oct 20, 2011</u>	
	SURVEYORS: <u>JD, TS</u>	
	START TIME:	END TIME:

TEMP (°C): <u>14.2</u>	CLOUD (100h): <u>100% Fecl</u>	WIND: <u>20</u>	PRECIPITATION: <u>Rain</u>
CONDITIONS: <u>wet, windy</u>			

POTENTIAL WILDLIFE HABITAT:

<input type="checkbox"/>	VERNAL POOLS
<input type="checkbox"/>	HIBERNACULA

<input type="checkbox"/>	SNAGS
<input type="checkbox"/>	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#

TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
 B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):
BREEDING BIRD - POSSIBLE:
 SH = SUITABLE HABITAT SM = SINGING MALE

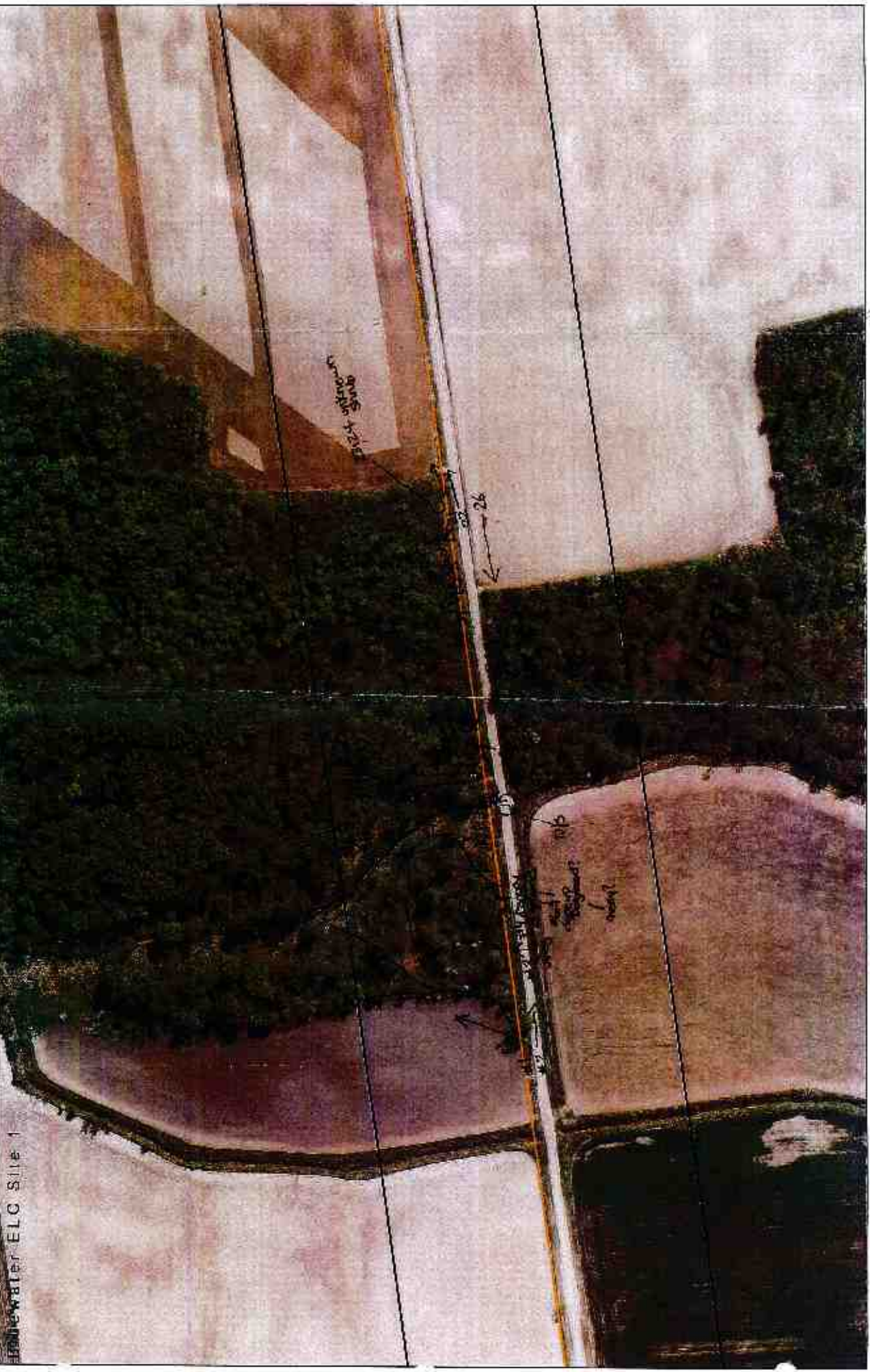
BREEDING BIRD - PROBABLE:
 T = TERRITORY D = DISPLAY P = PAIR
 A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
 DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
 NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
 AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
 OB = OBSERVED VO = VOCALIZATION CA = CARCASS
 DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
 TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
 SI = OTHER SIGNS (specify)

514

BTI- June 29/11 - ELC Roadside



ELC ROAD

26

26

ELC ROAD

Brewster Transmission line Road Study

ELC Community Description and Classification

Site: BT BLM-514 Polygon: B11

Surveyor(s): JWT Date: June 8/11 Time start: 12:30 finish: 3:30

UTMZ: _____ UTMN: _____

Polygon Description

System	Substrate	Topographic Features	Plant Form	Community
<input type="checkbox"/> Terrestrial <input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input checked="" type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input 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"/> ?	<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"/> Abar <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 checked="" type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input type="checkbox"/> Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	4		H.C. FREE > ALNANKE = VILANER
2			
3	3		R. HAZEL > SALIX
4			

HT Codes: 7 < 0.2m 6 > 0.2-0.6m 5 > 0.5-1m 4 > 1-2m 3 > 2-6m 2 > 6-26m 1 > 26m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition: Size Class Analysis: R <10 0 10-24 0 25-30 0 >30 0
 Standing Snags: <10 0 10-24 0 25-50 0 >50 0
 Deadfall / Logs: <10 0 10-24 0 25-50 0 >50 0

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

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

EcoSite: Populus Swamp Code: SND3
 Vegetation Type: MAPLE MURRAY DECIDUOUS SWAMP ECOSITE Code: SND3
 Indicators: Code: _____
 Complex: Code: _____

Community Profile Diagram/Comments

Muskrat marsh / Open / Pasture / Bar / Edge
 High / rich / edge / present / moist / swamp
 along / south / side / size / class / is / small
 very / large / trees / in / near / open / competition

Tree Tally by Species

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

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	Soils Ontario and ELC Soils Description	Summary
Zone			Moisture Regime
Easting			Drainage
Northing			Effective Texture (indicate below)
Position			% CF
Aspect			% CF
Percent			% CF
Slope			% CF
Length			% CF
Mottles			% CF
Gley			% CF
Water Table			% CF
Carbonates			% CF
Bedrock			% CF
Depth from zero			% CF
Texture			% CF
Depth from zero			% CF
Texture			% CF
Depth from zero			% CF
Texture			% CF
Depth from zero			% CF
Texture			% CF
% Surface Stone/Rock			% CF
Moisture Regime			% CF
Drainage			% CF

ELC
Community Description and Classification

Site: Barre to 514 Polygon: BT1 514

Surveyor(s): VAD Date: July 4, 2011 Time start: _____ finish: _____

UTMZ: _____ UTMZ: _____ UTMN: _____

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial	<input checked="" type="checkbox"/> Organic	<input type="checkbox"/> Lacustrine	<input type="checkbox"/> Plankton	<input type="checkbox"/> Lake
<input type="checkbox"/> Wetland	<input type="checkbox"/> Mineral Soil	<input type="checkbox"/> Riverine	<input type="checkbox"/> Submerged	<input type="checkbox"/> Pond
<input type="checkbox"/> Aquatic	<input type="checkbox"/> Parent Min.	<input type="checkbox"/> Bottomland	<input type="checkbox"/> Floating-LVD	<input type="checkbox"/> River
<input checked="" type="checkbox"/> Riparian	<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 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 type="checkbox"/> Deciduous	<input type="checkbox"/> Bog
<input checked="" type="checkbox"/> Terrestrial		<input type="checkbox"/> Talus	<input type="checkbox"/> Coniferous	<input type="checkbox"/> Barren
<input type="checkbox"/> Natural		<input type="checkbox"/> Crevice/Cave	<input type="checkbox"/> Mixed	<input type="checkbox"/> Meadow
<input type="checkbox"/> Cultural		<input type="checkbox"/> Ahear	<input type="checkbox"/> Prairie	<input type="checkbox"/> Thicket
<input type="checkbox"/> Open		<input type="checkbox"/> Rockland	<input type="checkbox"/> Savannah	<input type="checkbox"/> Woodland
<input type="checkbox"/> Shrub		<input type="checkbox"/> Beach / Bar	<input type="checkbox"/> Forest	<input type="checkbox"/> Plantation
<input checked="" type="checkbox"/> Treed		<input type="checkbox"/> Sand Dune		
		<input type="checkbox"/> Bluff		

Stand Description

Layer	HT	OVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	1	3	TILAMER - LAMARCEL - ACEFACE
2			
3			
4			

HT Codes: 1 < 0.2m 2 > 0.2-0.5m 3 > 0.5-1m 4 > 1-2m 5 > 2-5m 6 > 5-10m 7 > 10-25m 8 > 25-50m 9 > 50m

CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 50 - 60%

Stand Composition	Size Class Analysis	Abundance Codes
	<10 10-24 25-50 >50	N = None R = Rare O = Occasional A = Abundant
BAI	<10 10-24 25-50 >50	

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

Vegetation Type	Inclusion	Complex
MINERAL CULTURAL WOODLAND	Cedar	Cedar
	Cedar	Cedar
	Cedar	Cedar

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Area	Mean Floor
							2

Soils Ontario and ELC Soils Description

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

ELC WILDLIFE	SITE: <i>Quercus 514</i>	
	POLYGON: <i>BT1</i>	
	DATE: <i>June 29, 2011</i>	
	SURVEYORS:	
START TIME: <i>10:30</i>	END TIME: <i>2:05 pm</i>	

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

POTENTIAL WILDLIFE HABITAT:

VERNAL POOLS	SNAGS
HIBERNACULA	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
	<i>Yellow Warbler</i>	<i>ok</i>							
	<i>Red-eyed Vireo</i>	<i>ok</i>							
	<i>Red-eyed Goldfinch</i>	<i>ok</i>							

FAUNAL TYPE CODES (TY):
 B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

- BREEDING BIRD - POSSIBLE:**
 SH = SUITABLE HABITAT SM = SINGING MALE
- BREEDING BIRD - PROBABLE:**
 T = TERRITORY D = DISPLAY P = PAIR
 A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST
- BREEDING BIRD - CONFIRMED:**
 DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
 NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
 AE = NEST ENTRY

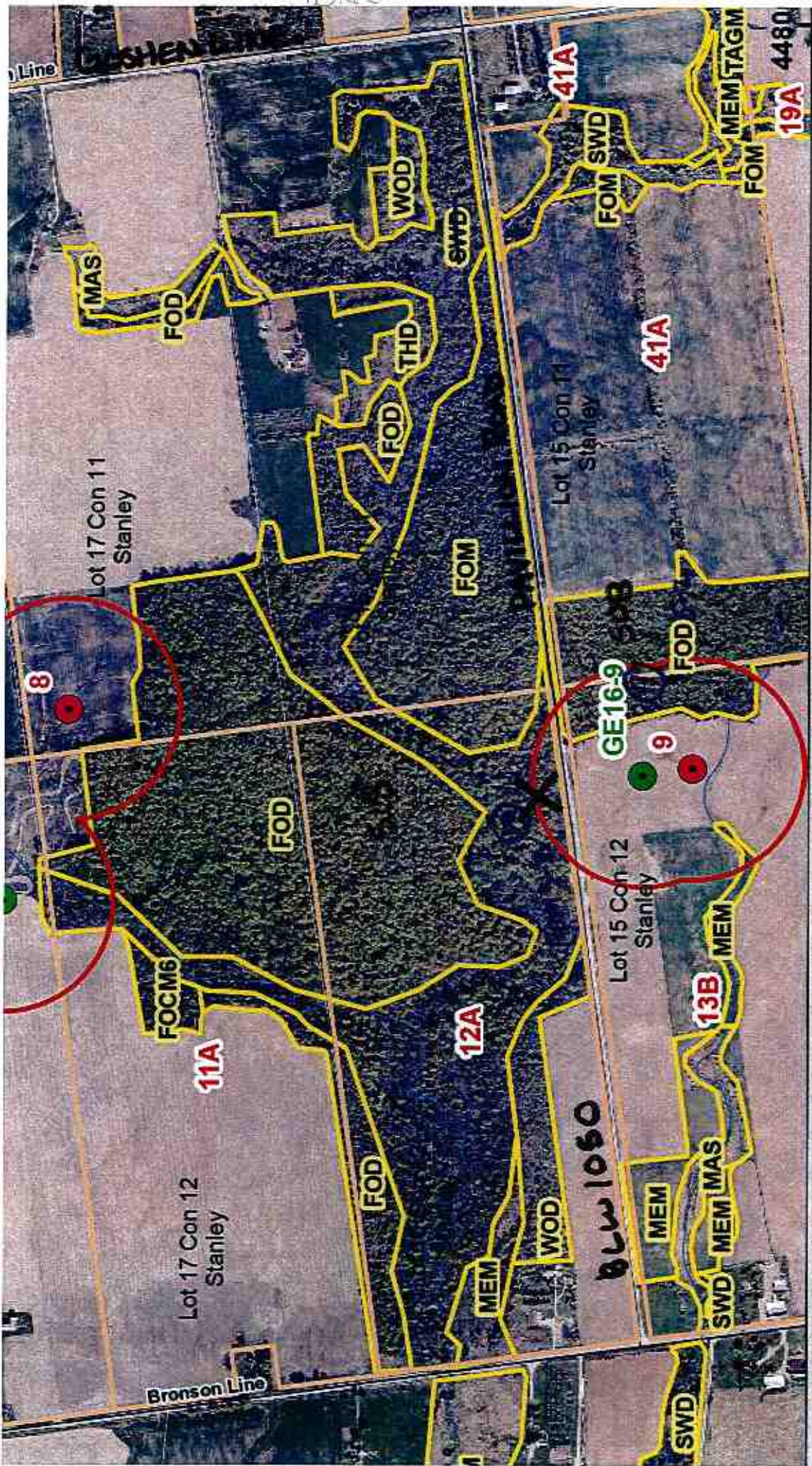
- OTHER WILDLIFE EVIDENCE:**
 OB = OBSERVED VO = VOCALIZATION CA = CARCASS
 DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
 TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
 SI = OTHER SIGNS (specify)

TURBINE I.D.

GE16-9, Sumners 9

BLW-518

BLW Fig 1



ACCESS - PAVILLION ROAD, CORNER LOT, NO LANEWAY

(can do as road survey)
from Pavillion Road

*also have landowner
permission for 13B

518

ELC Community Description and Classification

Site: Phase 1 - 518 Polygon: D

Surveyor(s): DJ Date: 1/15/01 Time start: 10:30 finish: 11:30

UTMZ: UTM: 18QUC

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	2	2	<u>SPUCANA > ACESACC = PICABIE</u>
2	3	2	<u>FRAGRANS = FRAPLEAS > BETULLE</u>
3	4	1	<u>CORALITE</u>
4	6	7	<u>FRAXINER</u>

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

Stand Composition: Size Class Analysis:

Standing Snags:	<u>2</u>	<u>10</u>	<u>10-24</u>	<u>25-50</u>	<u>N</u>	<u>>50</u>
Deadfall / Logs:	<u>2</u>	<u>10</u>	<u>10-24</u>	<u>25-50</u>	<u>N</u>	<u>>50</u>

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

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

Ecosite: Open Woodland Code: 18QUC

Vegetation Type: Open Woodland Code: 18QUC

Inclusion: Code: 18QUC

Complex: Code: 18QUC

Community Profile Diagram/Comments

Notes:

Handwritten note: 100% basal area

Tree Tally by Species

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

Soils Ontario and ELC Soils Description

Site Metrics	Plt/Auger #	Soils Description	Summary
UTM	Zone	Easting	Moisture Regime
	Northing	Position	Drainage
Slope	Aspect	Percent	Effective Texture (indicate below)
	Slope Length	Mottles	% CF
	Clay	Water Table	% CF
	Carbonates	Bedrock	% CF
	Depth from zero	Texture	% CF
	Depth from zero	Texture	% CF
	Depth from zero	Texture	% CF
	Depth from zero	Texture	% CF
	% Surface Stonor/Rock	Moisture Regime	% CF
	Drainage		

VASCULAR PLANT CHECKSHEET

Polygon 10
FORM 3-2

Location: BLW-518

Date: May 13, 2011

Observer: DJ

Job Number: 60155032

DICOT HERBS												MONOCOT HERBS											
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6						
Achillea millefolium						Erigeron annuus						Plantago lanceolata						Alisma plantago-aquatica					
Achaea pectypoda						Erigeron philadelphicus						Plantago major						Allium tricoccum					
Achaea rubra						Erigeron strigosus						Plantago rugelii						Allium					
Agastis						Erystrum chloranthoides						Podophyllum peltatum						Artemisia triphyllum					
Agrimonia gryposepala						Eupatorium maculatum						Polygonum						Asparagus officinalis					
Alliaria petiolata						Eupatorium perfoliatum						Polygonum						Calla palustris					
Amaranthus tetraloexus						Eupatorium rugosum						Polygonum						Clinantia borealis					
Ambrosia artemisiifolia						Euphorbia						Polygonum lapathifolium						Convolvula majus					
Amphispiza brevifrons						Euthamia gaumifolia						Polygonum persicaria						Cypripedium calceolus					
Anaphalis margaritacea						Fragaria virginiana						Potentilla						Citrus canadensis					
Aureolaria						Fragaria vesca						Potentilla norvegica						Epipactis helleborine					
Anemone canadensis						Galeopsis tetrahit						Potentilla nuda						Erythronium americanum					
Anemone virginiana						Galium						Prenanthes alba						Hemerocallis fulva					
Antennaria neglecta						Galium						Prunella vulgaris						Iris versicolor					
Apocynum androsaemifolium						Galium palustre						Pyrola asarifolia						Lemna minor					
Apocynum cannabinum						Galium triflorum						Ranunculus abortivus						Lemna trisulca					
Aquilegia canadensis						Geranium maculatum						Ranunculus abortivus						Lilium					
Aralia nudicaulis						Geranium robertianum						Ranunculus acris						Miscanthum canadense					
Arcium minus						Geum aegyptium						Ruthocchia hirta						Miscanthum racemosa					
Arisaema						Geum canadense						Rumex acetosella						Miscanthum stellata					
Aster canadense						Geum						Rumex crispus						Petalostema					
Asclepias tuberosa						Glecoma hederacea						Rumex						Potentilla cordata					
Asclepias syriaca						Hesalica aurikoba						Sanguinaria canadensis						Polygonatum pubescens					
Aster						Illeceperis malinalis						Sanicula maritima						Potamogeton crispus					
Aster cordifolius						Hieracium aurantiacum						Saponaria officinalis						Potamogeton pectinatus					
Aster ericoides						Hieracium cespitosum						Satureja vulgaris						Potamogeton					
Aster lanceolatus						Hieracium						Scutellaria galericulata						Potamogeton					
Aster laevis						Hydrophyllum virginicum						Silene vulgaris						Potamogeton					
Aster macrophyllus						Hypericum ascyronum						Sium						Segillaria latifolia					
Aster novae-angliae						Impatiens capensis						Solanum dulcainna						Sisyrinchium montanum					
Aster paniculatus						Inula helentium						Solidago						Smilax herbacea					
Barbarea vulgaris						Lactuca						Solidago canadensis						Spiranthes cernua					
Bidens cernua						Lappula canadensis						Solidago flexicaulis						Spirodela polyrrhiza					
Bidens frondosa						Lapsana communis						Solidago canadensis						Strelitopus racemosus					
Baehmeria cylindrica						Leucurus cardiaca						Solidago flexicaulis						Trillium erectum					
Catifa palustris						Lepidium						Solidago gigantea						Trillium grandiflorum					
Calyptegia sepium						Linaria vulgaris						Solidago nemoralis						Uvularia grandiflora					
Cardamine diphylla						Lithospermum officinale						Solidago rigosa						Uvularia grandiflora					
Cardamine						Lobelia						Sonchus oleraceus											
Caulophyllum thalictroides						Lobelia inflata						Sonchus asper											
Cerastium fontanum						Lolium inflata						Sonchus											
Cerastophyllum demersum						Lolium corniculatum						Spiraea											
Chelidonium majus						Lycopus americanus						Tanacetum vulgare											
Chenopodium album						Lycopus						Taraxacum officinale											
Chrysanth. leucanthemum						Lynchnacota ciliata						Thalictrum officinale											
Cichorium intybus						Lycium salicaria						Thalictrum pubescens											
Cleome						Medicago lupulina						Therapsid											
Cleome latifolia						Medicago sativum						Tragopogon pratensis											
Cirsium arvense						Mellilotus alba						Trientalis borealis											
Cirsium vulgare						Mentha arvensis						Trifolium											
Clematis virginiana						Mimulus ringens						Trifolium pratense											
Clinantia borealis						Mimulus ringens						Trifolium repens											
Coryza canadensis						Mitella diphylla						Tussilago farfara											
Coronilla varia						Moranda fistulosa						Urtica dioica											
Cyananthus roseum						Myosotis						Urticularia vulgaris											
Cynoglossum officinale						Nasturtium officinale						Verbascum thapsus											
Daucus carota						Napels cataria						Verbena hastata											
Desmodium canadense						Nuphar variegatum						Verbena urticifolia											
Dianthus barbata						Nymphaea odorata						Veronica											
Dipsacus fullonum						Oenothera biennis						Veronica officinalis											
Echinocystis lobata						Oenothera						Vicia cracca											
Echium vulgare						Oxalis stricta						Viola canadensis											
Epilobium						Phytolacca heterophylla						Viola											
Epilobium ciliatum												Viola pubescens											
Epilobium hirsutum												Viola sororia											
Epilobium perfoliatum																							

- 1: _____ 4: _____
 2: _____ 5: _____
 3: _____ 6: _____

SITE LOCATIONS

ELC WILDLIFE	SITE: <u>BLW-518</u>			
	POLYGON: <u>134</u>			
	DATE: <u>2/29/77</u>			
	SURVEYORS: <u></u>			
	START TIME: <u>1030</u>		END TIME: <u>1035</u>	
TEMP (°C): <u>10.2</u>	CLOUD (10th): <u>50%</u>	WIND: <u></u>	PRECIPITATION: <u>0</u>	
CONDITIONS: <u>17, 22, 12, 10, 10</u>				

POTENTIAL WILDLIFE HABITAT:

[] VERNAL POOLS	[] SNAGS
[] HIBERNACULA	[] FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):

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

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

Confirmation for S18

Bluewater Feature: 518_BLW1050/1531/1051/1091

(Additional properties to be surveyed due to changes in the Collection & Road layout)

October 17, 2011

100 Meters

0 25 50



- Right of Way
- Access/Collection Line
- Survey to be Completed
- Turbine Buffer (171.5m)

- FIN Survey Completed
- Turbine Buffer Feature into Road Property File
- Alternative Wind Energy Corridor



ELC

Community Description and Classification

Polygon Description

Terrestrial
 Wetland
 Aquatic
 Open Water
 Shallow Water
 Surficial Dep.
 Bedrock
 Historical
 Natural
 Cultural
 Open
 Shrub
 Fored

Lacustrine
 Rivine
 Bottomland
 Terrace
 Valley Slope
 Tableland
 Roll Upland
 Cliff
 Talus
 Crevice/Cave
 Alvar
 Rockland
 Beach / Bar
 Sand Dune
 Bluff

Planiflor
 Submerged
 Floating-LVD
 Graminoid
 Forb
 Lichen
 Bryophyte
 Deciduous
 Coniferous
 Mixed
 Lake
 Pond
 River
 Stream
 Marsh
 Swamp
 Fen
 Bog
 Barren
 Meadow
 Prairie
 Thicket
 Savannah
 Woodland
 Forest
 Plantation

Stand Description

1	2	3	4
	2	3	4
	ISOGONIA AXESHCC = PISCABLE		
	FAGAN = FILIPENNA > NUTALLE		

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%

Abundance Codes:	N = None	R = Rare	O = Occasional	A = Abundant
Path App	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Path App	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Pioneer Young Mid-Age Mature Old Growth

Vegetation	Dry - fresh Swamp - Super - Herbatic mixed	FOM 3-2
Installation		
Observation		

Community Profile Diagram/Comments

* Original survey as part of survey

Tree Tally by Species

																2
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

Soils Ontario and ELC Soils Description

Site Metrics	Profile #	Soils Ontario and ELC Soils Description				Summary
	Zone					Moisture Regime
	Easting					
	Northing					Drainage
	Position					
	Aspect					Effective Texture (indicate below)
	Percent					
	Slope					% CF
	Length					
	Mottles					% CF
	Clay					
	Water Table					% CF
	Carbonates					
	Bedrock					% CF
	Depth from zero					
	Texture					% CF
	Depth from zero					
	Texture					% CF
	Depth from zero					
	Texture					% CF
	Depth from zero					
	Texture					% CF
	Depth from zero					
	% Surface Stone/Rock					% CF
	Moisture Regime					
	Drainage					

Notes:

TURBINE ID

GE16-8, James &

BLW-518

BIO Fig 1

2008



Access: Property 11B - can drive straight back through
 ~ centre of farm, should be a visible path (as farmer uses it).

Pavilion Road

717

ELC Site: Blueberry 518 Polygon: 4
 Surveyor(s): DS Date: 12/15/11 Time start: 14:37
 UTMZ: 17 UTMZ: 446641 UTMN: 4818471

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp.) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4		ACESALL 7 FAGGRAN
2	2		FRAPVING
3	1		
4	1.3		FRYAMERZVEROFF1 = PRFSERP

HT Codes: 7 < 0.2m 6 > 0.2-0.5m 5 > 0.5-1m 4 > 1-1.2m 3 > 2-5m 2 > 6-25m 1 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition: Size Class Analysis:

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

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

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

Exstrate: Dry-fresh Sugar maple-Deciduous forest Code: F005
Vegetation Type: Dry-fresh Sugar maple-beed Deciduous forest Code: F005-2
Incubation: Code: F005-2
Completions: Code: F005-2

Community Profile Diagram/Comments

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

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

Soils Ontario and ELC Soils Description

Site Metrics		Pr/Auger #	Soils Description				Summary
UTM	Zone						Moisture Regime
	Easting	776691					
	Northing	481847					Drainage
	Position	1					
	Aspect	240					Effective Texture (indicate below)
	Percent	5					
	Slope	2					% CF
	Length						
	Mottles						% CF
	Gley						
	Water Table						% CF
	Carbonates						
	Bedrock						% CF
	Depth from zero						
	Texture						% CF
	Depth from zero						
	Texture						% CF
	Depth from zero						
	Texture						% CF
	Depth from zero						
	Texture						% CF
	Depth from zero						
	% Surface Stone/Rock						% CF
	Moisture Regime						
	Drainage						% CF

Polygon 9
FOOS-2

VASCULAR PLANT CHECKSHEET

Location: BLW-518

Date: May 12, 2011

Observer: DJ

Job Number: 60155032

Table with columns for Dicot Herbs and Monocot Herbs, each with sub-columns 1-6. Rows list various plant species such as Achillea millefolium, Eryngium yuccifolium, and Senecio jacobaea.

SITE LOCATIONS

- 1: _____
2: _____
3: _____
4: _____
5: _____
6: _____

ELC WILDLIFE	SITE: <i>Deep water 518</i>	
	POLYGON: <i>82</i>	
	DATE: <i>12/3/11</i>	
	SURVEYORS: <i>PO</i>	
	START TIME: <i>09:00</i>	END TIME: <i>12:15</i>

TEMP (°C): <i>1.0</i>	CLOUD (10th): <i>2/10</i>	WIND: <i>0</i>	PRECIPITATION: <i>NIL</i>
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

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

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
<i>2</i>	<i>WAS</i>	<i>SI</i>		<i>1</i>					
<i>B</i>	<i>WAS</i>	<i>SM</i>		<i>1</i>					

FAUNAL TYPE CODES (TY):

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

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS
IP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
TK = TRACKS HE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

BLW-518

Bluewater
Watercourse
Crossings
Property: 1056

Legend

- Bluewater
- Watercourse
- Crossings
- Property: 1056



ELC

Community Description and Classification

Site: 578 Polygon: 70
 Surveyor(s): J.A. R.M. Date: Nov. 4/11 Time start: 10:50
 UTMZ: UTMN:

Polygon Description

System	Substrata	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 checked="" type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input checked="" type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input checked="" 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"/> Gravel/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input checked="" 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 type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input checked="" type="checkbox"/> Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	2	4	Agave miss Much Greater Than, > Greater Than, = About Equal To
2	3	1	Azalea >> Yucca = Bit 3 ironwood > sug maple
3	5	2	Khanna oak (along edge) Ace Sa. = 100 west
4			Apr. maple

HT Codes: 1 < 0.2m 2 > 0.2-0.5m 3 > 0.5-1m 4 > 1-2m 5 > 2-8m 6 > 8-25m 7 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

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

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

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

Ecote: F05 Dry-Fresh Sugar Maple Code: F05
 Vegetation Type: Dry-Fresh Sugar Maple-Brook Code: F05-2
 Inclusion: Code:
 Complex: Code:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Bit Maple	25					
elm white	20					
Sug maple	10					
iron map	10					
Ironwood	10					
Total						100

Prism Factor

Tally 1	Tally 2	Tally 3	Tally 4	Total

Soils Ontario and ELC Soils Description

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

ELC	SITE:	BLW-518
	POLYGON:	P2
WILDLIFE	DATE:	Nov. 4/11
	SURVEYORS:	JD RM
	START TIME:	END TIME:

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

POTENTIAL WILDLIFE HABITAT:

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

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Chickadee	obs.							

FAUNAL TYPE CODES (TY):

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

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC Community Database and Classification

Site: **B. 518**

Polygon: _____

Surveyor(s): **J. & R. M.**

Date: **Nov 4, 2011**

Time start: _____

Time finish: _____

UTMZ: _____

UTMN: _____

Polygon Description

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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	5	4	<i>Solidago multiceps = Solidago canadensis</i> >> <i>Phalaris arifl.</i>
2			
3			
4			

HT Codes: 7 < 0.2m 6 > 0.2-0.5m 5 > 0.5-1m 4 > 1-2m 3 > 2-4m 2 > 4-6-25m 1 > 25m
 CVR Codes: 0 = none 1 0% 2 10-20% 3 25-50% 4 > 50%

Stand Composition:

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

BA: _____

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

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

Ecotope: **Mineral Cultural Meadow Ecotope**

Vegetation Type: **Dry - moist old field meadow type**

Inclusion: _____

Complex: _____

Code: **Cum 1**

Code: **Cum 1**

Code: _____

Code: _____

Community Profile Diagram/Comments

- active dirt bike trail throughout community

Notes:

Tree Tally by Species

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

Plasm Factor: 2

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	Soils Description				Summary
UTM	Zone					Moisture Regime
Slope	Facing					
	Northing					
	Position					
	Aspect					Drainage
	Percent					
	Slope Length					
Moisture	Mollis					Effective Texture (Indicate below)
Gley	Water Table					
Carbonates	Carbonates					
Bedrock	Bedrock					
Depth 1	Depth from zero	% CF	% CF	% CF	% CF	% CF
Texture	Texture					% CF
Depth 2	Depth from zero	% CF	% CF	% CF	% CF	% CF
Texture	Texture					% CF
Depth 3	Depth from zero	% CF	% CF	% CF	% CF	% CF
Texture	Texture					% CF
Depth 4	Depth from zero	% CF	% CF	% CF	% CF	% CF
Texture	Texture					% CF
% Surface Stone/Rock	% Surface Stone/Rock					
Moisture Regime	Moisture Regime					
Drainage	Drainage					

ELC WILDLIFE	SITE: <u>BLW-516</u>
	POLYGON: <u>P2</u>
	DATE: <u>Nov. 4/11</u>
	SURVEYORS: <u>JA RM</u>
	START TIME: _____ END TIME: _____

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

POTENTIAL WILDLIFE HABITAT:

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

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
93	<u>Ch. shrike</u>	<u>obs.</u>							

FAUNAL TYPE CODES (TY):

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

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:

SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:

T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:

DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:

OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

8/22 June 29/11 - EUC Roadside

Bluewater EUC Site 2



BLW-520

WOOD

CENTRAL

BB



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

July 5, 2011 - JRAAD

Site of Babylon Spring location

524



Bluewater

GSE16-16

BLW1046

BLW1002

48 ground

46 = white mallow? 47 = 48 = stone

49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60

Babylon

↖

N ↗

ELC
Community Description and Classification

Site: Blumenfeld 524 Polygon: CE16-16/SPW 15

Surveyor(s): Ann + Andrew Date: July 5, 2011 Time start: 12:16 PM
 UTMZ: 449007 UTMZ: 4818806 UTMN: _____

Polygon Description 17°C north canopy

System	Substrate	Topographic Feature	Plant Form	Community
<input checked="" type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Site	<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"/> Coll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD. <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input checked="" type="checkbox"/> Deciduous <input type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (> Much Greater, Than, > Greater, Than, = About Equal To)
1	1	7	ACE SAC >> FAG-PRIN > OST-VIR > TURBER
2	2	3	PR-VIR & L
3	3	2	CO-KO & TR-VIR & PR-VIR & L
4	4	6	

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 6 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 6-25m 1 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition: Size Class Analysis:

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

BA: _____

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

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

Ecocife: LOBE DRUMMOE FLOW Code: FORNSH

Vegetation Type: Dry-Fresh Sugar maple Code: FOOS-1

Inclusion: MAN Code: MAN09

Complex: _____ Code: _____

Community Profile Diagram/Comments

MAN09 inclusion was from late 1900s forest

stands are scattered * presented similar forest code plus

derived with tracing board

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Dist. Avg	Plant Factor
ACESAC	1	5					2
FAGGRAN	4						
PR-VIR	1						
OST-VIR	3						
Total		13					100
Basal Area (BA)		26					
Dead							

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	Zone	Easting	Northing	Position	Aspect	Percent	Slope	Length	Mottles	Gley	Water Table	Carbonates	Bedrock	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	% Surface Stone/Rock	Moisture Regime	Drainage	Summary
UTM	17		442607	4418806	TOP	East	5%								1	Loam	2	Loam	3						Moisture Regime	
Slope																										
Moisture Regime																										
Drainage																										