

CONIFERS	TREES and SHRUBS						GRAMINOIDS
	1	2	3	4	5	6	
Alnus balsamea							Agrostis gigantea
Juniperus communis							Agrostis stolonifera
Juniperus virginiana							Agropyron repens
Larix laricina							Alopecurus
Picea abies							Bromus inermis
Picea glauca							Calamagrostis canadensis
Pinus resinosa							Carex arctata
Pinus strobus	X	X					Carex aurca
Pinus sylvestris							Carex bebbii
Thuja occidentalis							Carex blanda
Tsuga canadensis							Carex glacillima
							Carex granuluris
							Carex hystericina
							Carex pensylvanica
							Carex radiata
							Carex retrosa
TREES and SHRUBS							Carex stipata
Acer negundo							Carex stricta
Acer rubrum							Carex vulpinoidea
Acer saccharinum							Carex
Acer saccharum	X		X				Carex
Acer spicatum							Carex
Alnus rugosa							Carex
Ancianchier							Carex
Berberis thunbergii							Carex
Betula alleghaniensis							Carex
Betula papyrifera			X				Carex
Carpinus caroliniana							Carex
Carya cordiformis							Cyperus
Celastrus scandens							Cyperus
Cornus alternifolia							Dactylis glomerata
Cornus amomum							Danthonia spicata
Cornus rugosa							Echinochloa crus-galli
Cornus stolonifera							Eleocharis erythropoda
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	X	X				Juncus effusus
Fraxinus nigra							Juncus tenuis
Fraxinus pennsylvanica							Juncus
Ilex verticillata							Juncus
Juglans cinerea							Leersia oryzoides
Juglans nigra							Muhlenbergia
Lonicera morrowi							Oryzopsis asperifolia
Lonicera tatarica							Panicum
Lonicera							Panicum'
Malus pumila	X						Phalaris arundinacea
Ostrya virginiana				X			Phleum pratense
Parthenocissus inserta							Phragmites australis
Populus balsamifera							Poa compressus
Populus grandidentata							Poa pratensis
Populus tremuloides				X			Poa
Populus <u>alba</u>				X			Scirpus atrovirens
Prunus pensylvanica							Scirpus cyperinus
Prunus serotina							Scirpus validus
Prunus virginiana							Scirpus
Prunus <u>cevasus</u>	X		X				Scirpus
Quercus macrocarpa							Setaria
Quercus rubra							Sparganium
Quercus							Typha angustifolia
Rhamnus cathartica				X			Typha latifolia
Rhus radicans				X			Typha Xglauca
Rhus typhina							
Ribes americana							
Ribes cynosbati							
Ribes x rubrum							
Robinia pseudo-acacia							
<u>Ribes frigidum</u>				X			
<u>Carya ovata</u>				X			

<b>ELC</b>  <b>WILDLIFE</b>	SITE: <u>BLW 487</u>	
	POLYGON: <u>(5)</u>	
	DATE: <u>Aug. 17/11</u>	
	SURVEYORS: <u>SAM</u>	
	START TIME: <u>1545h</u>	END TIME: <u>1760h</u>

TEMP (°C): <u>23C</u>	CLOUD (10th): <u>7</u>	WIND: <u>2-3</u>	PRECIPITATION: <u>nil</u>
CONDITIONS: <u>slightly overcast, warm, breezy - nice day to ELC</u>			

**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	#
H	Wood Frog	OB		7					
B	EAWP	VO		1					
B	WBWU	VO		2					
B	WOTH	VO		1					
B	OVBI	VO		1					
M	Raccoon	TK		2					

**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)

488 - BLW1601

- ROADS
- Asphalt/Collection Line
  - Collect or Bunker (125m)
  - Turbine Bunker (171.5m)
  - Other 100m+ 4x4 Access
  - Turbine Bunker - Natural Material
  - Gravelly Fabric
  - Bluewater Wind Energy Corridor

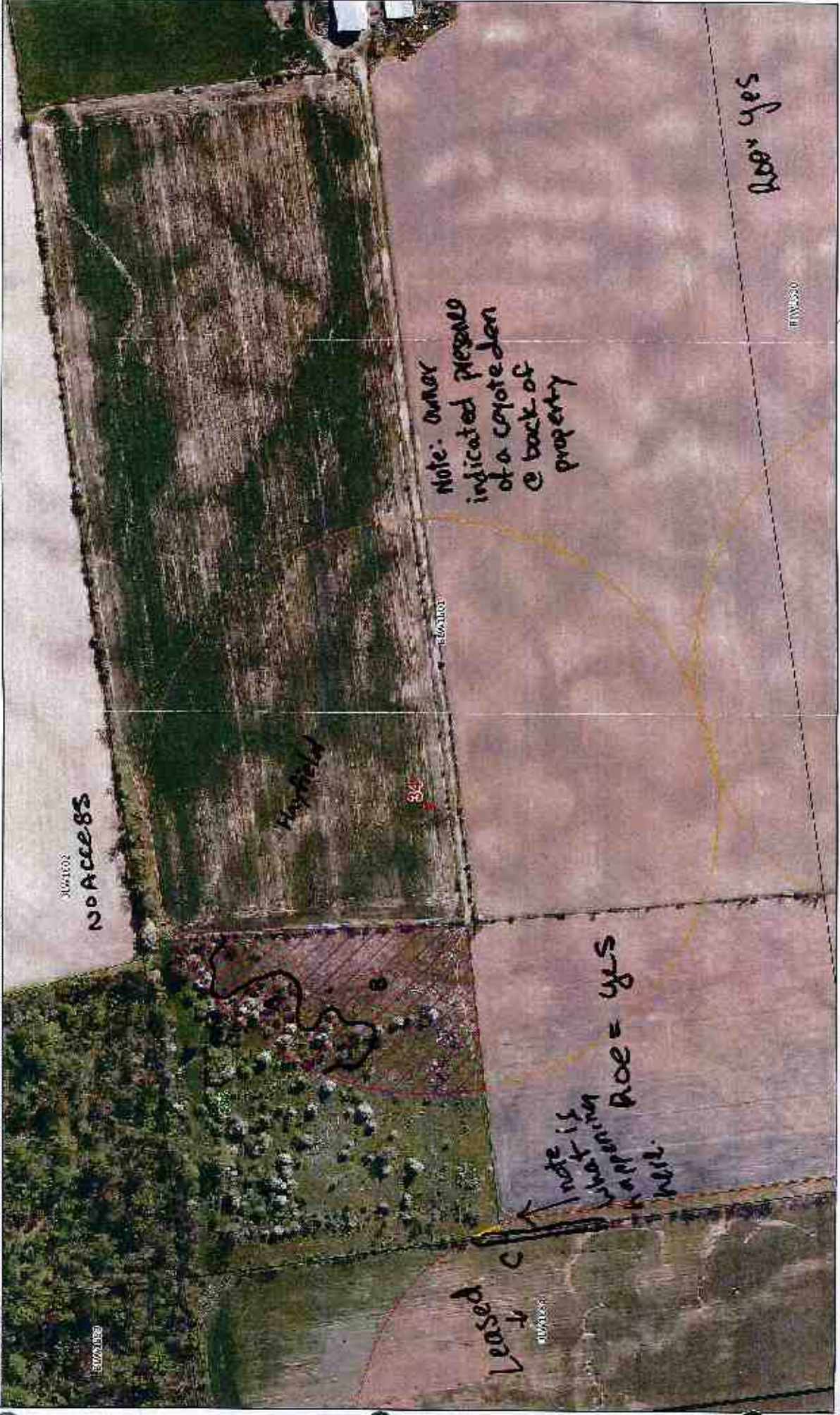


August 28, 2011



Bluewater Feature: 488\_BLW1601

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



Note: owner indicated presence of a coyote den @ back of property

Note is showing R.O.E = YES well.

Roe = yes

Leased

No Access

Hayfield

34

Royasso

**ELC** Site: 488\_BLW1601 Polygon: **A**

Community Description and Classification

Surveyor(s): **JK** Date: **Sept 27/11** Time start: **13:15** finish:

UTMZ: **451530** UTMN: **4815810**

**Polygon Description**

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

**Stand Description**

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp)
1	3	3	Viburnum - Pyracantha - Crataegus - Ruscacath.
2	4	1	Zanoxena Rosmarit
3	5	4	Salscaven Ast late
4	6	4	Dacoglan -> Favaing - Peaguet

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

Stand Composition:	Size Class Analysis:																		
	<table border="1"> <tr> <td>&lt;10</td> <td>A</td> <td>10-24</td> <td>O</td> <td>25-50</td> <td>&gt;50</td> </tr> <tr> <td>Standing Snags:</td> <td>&lt;10</td> <td>R</td> <td>10-24</td> <td>25-50</td> <td>&gt;50</td> </tr> <tr> <td>Deadfall / Log:</td> <td>&lt;10</td> <td>R</td> <td>10-24</td> <td>25-50</td> <td>&gt;50</td> </tr> </table>	<10	A	10-24	O	25-50	>50	Standing Snags:	<10	R	10-24	25-50	>50	Deadfall / Log:	<10	R	10-24	25-50	>50
<10	A	10-24	O	25-50	>50														
Standing Snags:	<10	R	10-24	25-50	>50														
Deadfall / Log:	<10	R	10-24	25-50	>50														

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

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

Ecotope: **Navy bay - Pean - Hawthorn** Code: **Cut 1**

Vegetation Type: **Cult Thicket** Code:

Inclusion: Code:

Complex: Code:

**Community Profile Diagram/Comments**

Notes:

\* Turn over

**Tree Tally by Species**

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor
<b>Total</b>						2
<b>Basal Area (BA)</b>						
<b>Dead</b>						

**Soils Ontario and ELC Soils Description**

Site Metrics	PIU/Auger #	Summary
Zone		
Easting		
Northing		
Position		
Aspect		
Percent		
Slope		
Length		
Mottles		
Glly		
Water Table		
Carbonates		
Bedrock		
Depth from zero	% CF	% CF
Texture	10	% CF
Depth from zero	% CF	% CF
Texture	max below	% CF
Depth from zero	% CF	% CF
Texture	1	% CF
Depth from zero	% CF	% CF
Texture	% CF	% CF
Depth from zero	% CF	% CF
Texture	% CF	% CF
% Surface Stone/Rock		
Moisture Regime		
Drainage		

Ⓑ Old Field - Probably abandoned Pasture on level ground  
UTM - 451495 / 4815740

3-1 Pyrcorn

4-1 Pyrcorn

5/6-4 Dauglom - Centjace  $\Rightarrow$  Solcani - Broiner - Daucaro

Veg Type - CUM1

Ⓒ Hedgerow along fence line at SW corner  
UTM 451415 / 4815665

2-6 m tall Frapenn - Rbacath - Cortocorn  
covered in Vitriper, some Pariuse



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		X				Agrostis gigantea					
Juniperus communis						Rosa						Agrostis stolonifera			X		
Juniperus virginiana	X					Rubus allegheniensis						Agropyron repens			X		
Larix laricina						Rubus idaeus		X	X			Alopecurus					
Picea abies						Rubus occidentalis		X				Bromus inermis			X		
Picea glauca						Rubus odoratus						Calamagrostis canadensis					
Pinus resinosa						Rubus pubescens						Carex arctata					
Pinus strobus						Salix alba						Carex aurea					
Pinus sylvestris						Salix amygdaloides						Carex bebbii					
Thuja occidentalis	X					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					
TREES and SHRUBS						+ Salix purpurea						Carex retrorsa					
Acer negundo						Salix x rubens						Carex stipata					
Acer rubrum						+ Salix						Carex stricta					
Acer saccharinum						Sambucus canadensis						Carex vulpinoides			X		
Acer saccharum						Sambucus racemosa						Carex spicata			X		
Acer spicatum						Sorbus aucuparia						Carex					
Alnus rugosa						Spiraea alba						Carex					
Amelanchier						Syringa vulgaris						Carex					
Berberis thunbergii						+ Tilia americana						Carex					
Betula alleghaniensis						Ulmus americana		X				Carex					
Betula papyrifera						Ulmus						Carex					
Carpinus caroliniana						Vaccinium						Carex					
Carya cordiformis						Viburnum lentago		X				Carex					
Celastrus scandens						Viburnum opulus						Cyperus					
Cornus alternifolia						Viburnum						Cyperus					
Cornus amomum						Vitis riparia			X			Dactylis glomerata		X	X		
Cornus rugosa <i>foemina</i>	X	X				Zanthoxylum armex	X	X				Danthonia spicata					
Cornus stolonifera	X	X										Echinochloa crus-galli					
Corylus cornuta												Eleocharis erythropoda					
Crataegus monogyna	X											Eleocharis					
Crataegus punctata	X											Elymus virginicus					
Crataegus sp.	X	X										Elymus					
Crataegus												Festuca arundinacea					
Diervilla lonicera												Glyceria striata					
Fagus grandifolia												Glyceria					
Fraxinus americana						FERNS						Juncus dudleyi					
Fraxinus nigra						Adiantum pedatum						Juncus effusus					
Fraxinus pennsylvanica	X	X				Athyrium filix-femina						Juncus tenuis		X			
Ilex verticillata						Botrychium multifidum						Juncus					
Juglans cinerea						Botrychium virginianum						Juncus					
Juglans nigra	X					Cystopteris bulbifera						Leersia oryzoides					
Lonicera morrowi						Dryopteris bulbifera						Muhlenbergia					
Lonicera tatarica						Dryopteris cristata						Oryzopsis asperifolia					
Lonicera						Dryopteris marginalis						Panicum capillare		X			
Malus pumila	X	X				Dryopteris						Panicum					
Ostrya virginiana						Equisetum arvense						Phalaris arundinacea					
Parthenocissus inserta			X			Equisetum hyemale						Phleum pratense		X	X		
Populus balsamifera						Equisetum variegatum						Phragmites australis					
Populus grandidentata						Equisetum						Poa compressus					
Populus tremuloides						Gymnocarpium dryoperis						Poa pratensis		X			
Populus						Lycopodium digitatum						Poa					
Prunus pennsylvanica						Lycopodium obscurum						Scirpus atrovirens		X			
Prunus serotina	X	X				Lycopodium						Scirpus cyperinus					
Prunus virginiana	X	X				Lycopodium						Scirpus validus					
Prunus						Lycopodium						Scirpus					
Quercus macrocarpa						Matteucia struthiopteris						Scirpus					
Quercus rubra						Onoclea sensibilis						Setaria faberii		X			
Quercus						Osmunda cinnamomina						Sparganium					
Rhamnus cathartica	X	X				Osmunda regalis						Typha angustifolia					
Rhus radicans	X	X				Polystichum acrostichoides						Typha latifolia					
Rhus typhina						Pteridium aquilinum						Typha X glauca					
Ribes americana	X					Thelypteris palustris						Setaria glauca		X			
Ribes cynosbati												S. viridis		X			
Ribes x rubrum																	
Robinia pseudo-acacia																	
Pyrus comm	X	X															

ELC	SITE: 488 BLW 1601
	POLYGON:
WILDLIFE	DATE: Sept 27/2011
	SURVEYORS: Kausua
	START TIME: 1:00 pm      END TIME: 2:15

TEMP (°C): 21	CLOUD (10th): 4	WIND: 0	PRECIPITATION: 0
CONDITIONS:			

**POTENTIAL WILDLIFE HABITAT:**

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

**SPECIES LIST:**

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	HOLA	OB			L	Monarch	OB		
	SAVSP				L	Cabbag			
	VESP				L	Alfalfa Butt			
	KILL				L	Corn Sulfur			
	HAWK				L	E. Comma			
	AMGO				L	Pearl Crescent			
	AMCR				O	Caroline Grasshopper			
	SOSP					Praying Mantid			
	GRCA					Carabid Beetle			
	BLJA				L	Question Mark			
						Old Rock-pile			
						Old metal, boards, logs etc - possible snags			
						hibernaculum in 'old field cut'			

451510/4815775

**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)



# Bluewater Feature: 488\_BLW1601

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

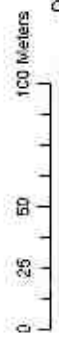
October 17, 2011



- Roads
- Access/Collection Line
- Survey to be Completed
- Turbine Buffer: 1171.5m

ELC Survey Completed

- Turbine Buffer Feature: proceed
- Property File #
- Bluewater Wind Energy Centre



**ELC**  
Community Description and Classification

Site: BLW 488 Polygon: 488

Surveyor(s): Bill + Tom Date: Oct 20 Time start: \_\_\_\_\_ finish: \_\_\_\_\_

UTMZ: \_\_\_\_\_ UTMZ: \_\_\_\_\_ UTMN: \_\_\_\_\_

**Polygon Description**

System	Substrate	Topographic Feature	Plant Form	Community
<input type="checkbox"/> Terrestrial <input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <b>Site</b> <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input type="checkbox"/> Surficial Dep. <input checked="" type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input checked="" type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Slope <input type="checkbox"/> Tableland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input type="checkbox"/> Bryophyte <input 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)
1		4	green ash = Cedar
2			
3			
4			

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 0.5-1m 4 < 1-2m 3 > 2-5m 1 > 25m  
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 60%

**Stand Composition: Size Class Analysis:**

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

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

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

Ecotope:	Code:
Vegetation Type: <u>Green ash ASH Mineral Deciduous Swamp Ecotope</u>	Code: <u>SWD2</u>
Inclusion:	Code:
Complex:	Code:

**Community Profile Diagram/Comments**

SWD2 observed adjacent (no access)

— fence line observation

Notes:

**Tree Tally by Species**

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

**Soils Ontario and ELC Soils Description**

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



488

BTH - June 20/11 - ELC Roadside

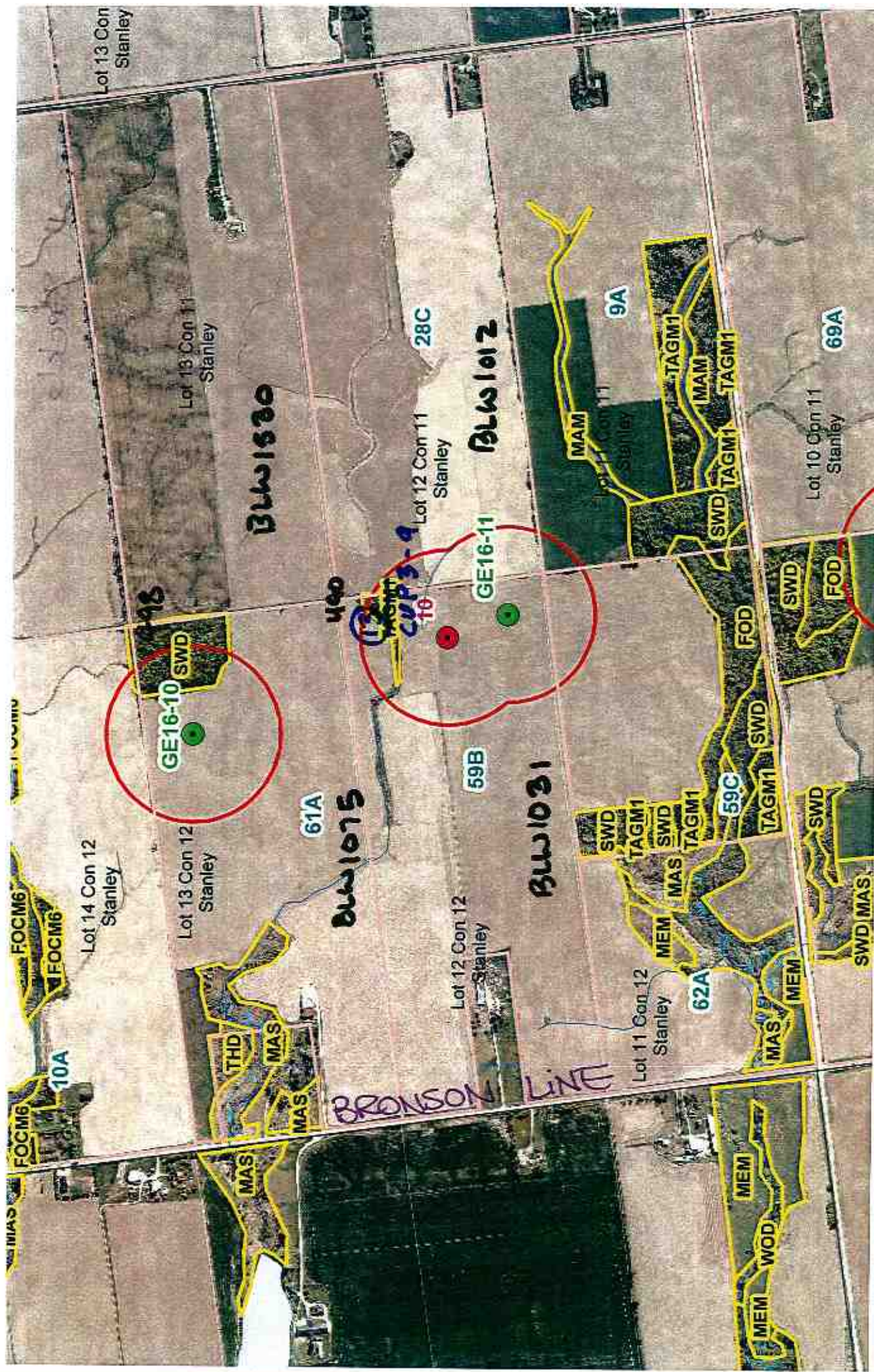




WTL ne 11D

GE16-11, Seimens 10

BLW-490



Access: via Bronson Line & property 59B.

# ELC

Community Description and Classification

Site: **BLW-490** Polygon: **B**

Surveyor(s): **D** Date: **7/1/00** Time start: **10:00** finish: **12:00**

UTMZ: **44** UTMN: **10**

## Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <b>Site</b> <input type="checkbox"/> Open Water <input type="checkbox"/> Shallow Water <input type="checkbox"/> Surficial Dep. <input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basic Bedrk <input type="checkbox"/> Carb. Bedrk <input type="checkbox"/> Bedrock	<input type="checkbox"/> Lacustrine <input type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input checked="" type="checkbox"/> Valley Slope <input type="checkbox"/> Tableland <input type="checkbox"/> Roll, Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvear <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"/> Bryophytic <input type="checkbox"/> Deciduous <input checked="" type="checkbox"/> Coniferous <input type="checkbox"/> Mixed	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> River <input type="checkbox"/> Stream <input type="checkbox"/> Marsh <input type="checkbox"/> Swamp <input type="checkbox"/> Fen <input type="checkbox"/> Bog <input type="checkbox"/> Barren <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input type="checkbox"/> Forest <input type="checkbox"/> Plantation

## Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp)
1	3	4	<i>P. CRAM. ALL</i>
2	4	1	<i>PRAYVIRG = CRAM. ALL</i>
3	5	1	<i>ROSA-C. C.</i>
4	7	1	<i>PRAYVIRG = TAROFF</i>

HT Codes: 7 < 0.2m 6 > 0.2-0.5m 5 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 5-25m 1 > 25m  
 CVR Codes: 0 = none 10% - 30% 2 10 25% 3 25 - 50% 4 50%

Stand Composition: Size Class Analysis:

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

BA: **1**

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

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

Ecotope: *Coniferous Plantation* Code: *CLP3*

Vegetation Type: *Mineral Spruce / Bryophytic* Code: *CLP3a*

Inclusion: *Deciduous plantations 1998* Code:

Complex: Code:

## Community Profile Diagram/Comments

Community Profile Diagram/Comments

Notes:

*Not a ...*

*bird's*

## Tree Tally by Species

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

## Soils Ontario and ELC Soils Description

PH/Auger #	Zone	Easting	Northing	Position	Aspect	Percent	Slope	Slope Length	Mottles	Clay	Water Table	Carbonates	Bedrock	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	Depth from zero	Texture	% Surface Stone/Rock	Moisture Regime	Drainage	Summary
1																									
2																									
3																									
4																									
Soils Ontario and ELC Soils Description																									
Site Metrics																									
Depth to ...																									
Soil Horizon Description																									
Moisture Regime																									
Drainage																									







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 <i>DELICATA</i>	X					Agrostis stolonifera					
Juniperus virginiana						Rubus allegheniensis						Agropyron repens					
Taxus latifolia						Rubus idaeus	X					Alopecurus					
Picea abies	X					Rubus occidentalis						Bromus inermis					
Picea glauca						Rubus odoratus						Calamagrostis canadensis					
Pinus resinosa						Rubus pubescens						Carex acutata					
Pinus strobus						Salix alba						Carex aurea					
Pinus sylvestris						Salix amygdaloides						Carex bebbii					
Thuja occidentalis						Salix helvetica						Carex blanda					
Tsuga canadensis						+ Salix discolor						Carex gracillina					
						Salix eriocephala						Carex granularis					
						Salix exigua						Carex hystericina					
						Salix lucida						Carex pennsylvanica					
						Salix petiolaris						Carex radiata					
TREES and SHRUBS						+ Salix purpurea						Carex retrosa					
Acer negundo						Salix x rubens						Carex stipitata					
Acer rubrum						Salix						Carex stricta					
Acer saccharinum						Sambucus canadensis						Carex vulpinoidea					
Acer saccharum						Sambucus racemosa						Carex					
Acer spicatum						Sorbus aucuparia						Carex					
Alnus rugosa						Spirea alba						Carex					
Amelanchier						Syringa vulgaris						Carex					
Berberis thunbergii						+ Tilia americana						Carex					
Betula alleghaniensis						Ulmus americana						Carex					
Betula papyrifera						Ulmus						Carex					
Carpinus caroliniana						Vaccinium						Carex					
Carya amara						Viburnum lentago						Carex					
Celastrus scandens						Viburnum opulus						Cyperus					
Cornus alternifolia						Viburnum						Cyperus					
Cornus amomum						Vitis riparia						Dactylis glomerata					
Cornus rugosa												Danthonia spicata					
Cornus stolonifera												Echinochloa crus-galli					
Corylus cornuta												Echinochloa crus-galli					
Crataegus monogyna												Elymus					
Crataegus punctata												Festuca arundinacea					
Crataegus sp.												Glyceria striata					
Crataegus												Glyceria					
Dicentra lanifolia												Juncus dudleyi					
Fagus grandifolia												Juncus effusus					
Fraxinus americana												Juncus tenuis					
Fraxinus nigra						FERNS						Juncus					
Fraxinus pennsylvanica						Adiantum petatum						Juncus					
Ilex verticillata						Athyrium filix-femina						Juncus					
Juglans cinerea						Botrychium multifidum						Juncus					
Juglans nigra						Botrychium virginianum						Leersia oryzoides					
Lonicera morrowi						Cystopteris bulbifera						Muhlenbergia					
Lonicera tatarica						Dryopteris carthusiana						Oryzopsis asperifolia					
Lonicera						Dryopteris cristata						Panicum					
Malus pumila						Dryopteris marginalis						Panicum					
Ostrya virginiana						Dryopteris						Phalaris arundinacea					
Parthenocissus inserta						Equisetum arvense						Phleum pratense					
Populus balsamifera						Equisetum hyemale						Phragmites australis					
Populus grandidentata						Equisetum variegatum						Poa compressus					
Populus tremuloides						Equisetum						Poa pratensis					
Populus						Cyathocarpium dryopteris						Poa					
Prunus pennsylvanica						Lycopodium digitatum						Scirpus atrovirens					
Prunus serotina						Lycopodium obscurum						Scirpus cyperinus					
Prunus virginiana	X					Lycopodium						Scirpus validus					
Prunus						Lycopodium						Scirpus					
Quercus macrocarpa						Mattuccia struthiopteris						Scirpus					
Quercus rubra						Onoclea sensibilis						Setaria					
Quercus						Osmunda cinnamomea						Sparganium					
Rhamnus cathartica	X					Osmunda regalis						Typha angustifolia					
Rhus radicans						Polytaichum acrostichoides						Typha latifolia					
Rhus typhina						Pteridium aquilinum						Typha X glauca					
Ribes americana						Thelypteris palustris											
Ribes cynosbati																	
Ribes x rubrum																	
Robinia pseudo-acacia																	

<b>ELC</b>  <b>WILDLIFE</b>	SITE: <b>BLW-490</b>		
	POLYGON: <b>7</b>		
	DATE: <b>12/3/01</b>		
	SURVEYORS: <b>JD</b>		
	START TIME: <b>12:30</b>	END TIME: <b>1:00</b>	
TEMP (°C): <b>20</b>	CLOUD (10th): <b>100</b>	WIND: <b>0</b>	PRECIPITATION: <b>0</b>
CONDITIONS: <b>clear</b>			

**POTENTIAL WILDLIFE HABITAT:**

VERNAL POOLS  
HERNACULA

SNAGS  
FALLEN LOGS

**SPECIES LIST:**

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Song	SM							
B	W. Wren	SM							
B	W. Wren	SM							
B	W. Wren	SM							
B	W. Wren	SM							
B	W. Wren	SM							

**FAUNAL TYPE CODES (TY):**

B = BIRD M = MAMMAL H = HERPETOFAUNA I = 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  
AC = 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)

Feature 49Z

NH

NOV 23 12 01

FOD  
6-5

49C

49D





VASCULAR PLANT CHECKSHEET

Location: BLW 1076  
Observer: NBT

492

Date: Nov 23/11

Job Number:

Table with columns for Dicot Herbs (1-6) and Monocot Herbs (1-6). Rows include plant species names such as Achillea millefolium, Adiantum species, Agrostis species, etc.

- 1: \_\_\_\_\_
2: \_\_\_\_\_
3: \_\_\_\_\_
4: \_\_\_\_\_
5: \_\_\_\_\_
6: \_\_\_\_\_

SITE LOCATIONS

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						Altopocuris					
Picea abies						Rubus occidentalis						Brizopyrum inermis					
Picea glauca						Rubus odoratus						Culamaagrostis canadensis					
Pinus resinosa						Rubus pubescens						Carex alata					
Pinus strobus						Salix alba						Carex aurea					
Pinus sylvestris						Salix amygdaloides						Carex bebbii					
Thuja occidentalis						Salix bebbiana						Carex blanda					
Tsuga canadensis						+ Salix discolor						Carex gracillima					
						Salix eriocephala						Carex granularis					
						Salix exigua						Carex hystericina					
						Salix lucida						Carex pennsylvanica					
						Salix petiolaris						Carex radiata					
TREES and SHRUBS						+ Salix purpurea						Carex retrorsa					
Acer negundo						Salix x robens						Carex stipata					
Acer rubrum						+ Salix						Carex stricta					
Acer saccharinum						Sambucus canadensis						Carex vulpinoidea					
Acer saccharum						Sambucus racemosa						Carex					
Acer spicatum						Sorbus aucuparia						Carex					
Alnus rugosa						Spiraea alba						Carex					
Amelanchier sp.						Syringa vulgaris						Carex					
Berberis thunbergii						+ Tilia americana						Carex					
Betula alleghaniensis						Ulmus americana						Carex					
Betula papyrifera						Ulmus						Carex					
Carpinus caroliniana						Vaccinium						Carex					
Carya cordiformis						Viburnum lentago						Carex					
Celastrus scandens						Viburnum opulus						Cyperus					
Cornus alternifolia						Viburnum						Cyperus					
Cornus amomum						Vitis riparia						Dactylis glomerata					
Cornus rugosa												Danthonia spicata					
Cornus stolonifera												Echinochloa crus-galli					
Corylus cornuta												Elocharis erythropoda					
Crataegus monogyna												Elocharis					
Crataegus punctata												Elymus virginicus					
Crataegus sp.												Elymus					
Crataegus												Festuca arundinacea					
Dieravilla lonicera												Glyceria striata					
Fagus grandifolia												Glyceria					
Fraxinus americana												Juncus dudleyi					
Fraxinus nigra						FERNS						Juncus effusus					
Fraxinus pennsylvanica						Adiantum pedatum						Juncus tenuis					
Ilex verticillata						Athyrium filix-femina						Juncus					
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Lonicera morrowi						Cystopteris bulbifera						Muhlenbergia					
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Malus pumila						Dryopteris marginalis						Panicum					
Ostrya virginiana						Dryopteris						Pbularis arundinacea					
Parthenocissus inserta						Equisetum arvense						Phleum pratense					
Populus balsamifera						Equisetum hyemale						Phragmites australis					
Populus grandidentata						Equisetum variegatum						Poa compressus					
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Populus						Gymnocarpium dryopteris						Poa					
Prunus pennsylvanica						Lycopodium digitatum						Scirpus atrovirens					
Prunus serotina						Lycopodium obscurum						Scirpus cyperinus					
Prunus virginiana						Lycopodium						Scirpus validus					
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Rhus radicans						Polystichum acrostichoides						Typha latifolia					
Rhus typhina						Peridium aquilinum						Typha Xglauca					
Ribes americana						Thelypteris palustris											
Ribes cynosbati																	
Ribes x rubrum																	
Robinia pseudo-acacia																	

<b>ELC</b>  <b>WILDLIFE</b>	SITE: <u>Bow lot 8</u> <u>412</u>	
	POLYGON:	
	DATE: <u>Nov. 23/11</u>	
	SURVEYORS: <u>NBH</u>	
	START TIME: <u>8:00 am</u>	END TIME:

TEMP (°C): <u>3°C</u>	CLOUD (10th): <u>1</u>	WIND: <u>1</u>	PRECIPITATION: <u>Overnight</u>
CONDITIONS: <u>Calm</u>			

**POTENTIAL WILDLIFE HABITAT:**

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

**SPECIES LIST:**

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	chipmunk	OB		1					

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

**EVIDENCE CODES (EV):**

**BREEDING BIRD - POSSIBLE:**  
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 DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS/YOUNG  
 TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT  
 SI = OTHER SIGNS (specify)



**Blowwater Feature 493** BLW1502/1542

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

NEUS SURVEYING  
E/C Survey Completed  
Turbine Builts! feature finished  
Property Fabric  
Blowwater Mtn. Energy Co. Inc

Route:  
Access/Collection Line  
Survey with Computer  
Turning Elev. (1/1.517)



October 19, 2014  
100 Meters



October 17, 2011







