

ELC WILDLIFE	SITE: Bluewater, 481
	POLYGON: 18
	DATE: 12/11/11
	SURVEYORS: DJ
	START TIME: 13:40 END TIME: 14:47

TEMP (°C): 22	CLOUD (10th): 9/10	WIND: 1	PRECIPITATION: 0
CONDITIONS: Warm, partly cloudy			

POTENTIAL WILDLIFE HABITAT:

<input checked="" 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	WREN	SM		1					
B	WREN	SM		1					
B	WREN	SM		1					
B	WREN	SM		1					
B	WREN	SM		1					
B	WREN	SM		1					
B	WREN	SM		1					

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 HF = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

Access off left by the north condensation



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BLW 1677

BLW 1677

C-1521

19

SW 1/4

BLW 1677

BLW 1677

BLW 1677



ELC Community Description and Classification

Site: Blackburn Polygon: GE10-21

Surveyors: JR(+ Angela) Date: July 5, 2011 Time start: 1:52 PM finish: 3:30 PM

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 Site <input type="checkbox"/> Open Water <input checked="" 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 checked="" type="checkbox"/> Tableland <input type="checkbox"/> Roll, Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Alvar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Plankton <input type="checkbox"/> Submerged <input type="checkbox"/> Floating-LVD <input type="checkbox"/> Graminoid <input type="checkbox"/> Forb <input type="checkbox"/> Lichen <input checked="" type="checkbox"/> Bryophyte <input 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) (> Much Greater Than; > Greater Than; = About Equal To)
1	1	5	ACE SACKS, ACE RUBER > FRAGR = ULMUS
2	3	5	RACATA > WIMMER
3			
4	4	4	TOXADIS, SIVAVENS, ZCAR, BOB

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 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 - 50% 4 50 - 60%

Stand Composition: Size Class Analysis:

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

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

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

Ecosite: Deciduous Swamp Code: SND3-2

Vegetation Type: Code:

Inclusion: Code:

Complex: Code:

Community Profile Diagram/Comments

→ trees are very large
 silver birch maple swamp

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor	2
Silver ash	1						
Silver maple	11						
Red maple	3						
BX. ORX.	1						
Total	7						100
Basal Area (BA)							
Dead							

Soils Ontario and ELC Soils Description

Site Metrics	PI/Auger #	Soil Horizon Description				Summary
Zone Easting Northing Position Aspect Percent Slope Length	17 449409 4815408 Road SW 2% 100m					Moisture Regime Drainage
Mottles	21cm					
Gley						
Water Table						
Carbonates						
Bedrock						
1	Depth from zero	0	% CF			% CF
	Texture	SIS				S
2	Depth from zero	22m	% CF			% CF
	Texture	S				
3	Depth from zero		% CF			% CF
	Texture					
4	Depth from zero		% CF			% CF
	Texture					
	% Surface Stone/Rock					
Moisture Regime		5 very moist				
Drainage		1/P				

VASCULAR PLANT CHECKSHEET

Location: Blueswater 483

Date: July 5, 2011

Observer: Jess Anderson

Job Number:

dicot HERBS	1	2	3	4	5	6	1	2	3	4	5	6	MONOCOT HERBS	1	2	3	4	5	6
Achillea millefolium													Alisma plantago-aquatica						
Actaea racemosa													Allium tricoccum						
Actaea rubra													Allium						
Agalinis													Adesmia triphyllum						
Agropyron gracile													Asparagus officinalis						
Ajacis patens													Cala palustris						
Amaranthus retrofractus													Calluna borealis						
Amaranthus retrofractus													Carex americana						
Amaranthus retrofractus													Cynodactylon dactyloides						
Amaranthus retrofractus													Elaeagnus canadensis						
Amphispiza bilineata													Equisetum hyemale						
Anaphalis margaritacea													Erythronium americanum						
Anemone													Hypericum						
Anemone canadensis													Hypericum						
Anemone virginiana													Hypericum						
Antennaria neglecta													Hypericum						
Apocynum androsaemifolium													Hypericum						
Apocynum cannabinum													Hypericum						
Aquilegia canadensis													Hypericum						
Aster													Hypericum						
Aster multiflorus													Hypericum						
Aster paniculatus													Hypericum						
Aster latifolius													Hypericum						
Aster macrophyllus													Hypericum						
Aster novae-angliae													Hypericum						
Aster purpureus													Hypericum						
Barbarea vulgaris													Hypericum						
Bidens													Hypericum						
Bidens frondosa													Hypericum						
Bidens frondosa													Hypericum						
Boehmeria cylindrica													Hypericum						
Caltha palustris													Hypericum						
Calyptella angustifolia													Hypericum						
Candollea diphylla													Hypericum						
Candollea diphylla													Hypericum						
Candollea diphylla													Hypericum						
Candollea diphylla													Hypericum						

1: SW032

2: _____
3: _____

4: _____

5: _____
6: _____

SITE LOCATIONS

I CONIFERS						TREES and SHRUBS						GRAMINOIDS					
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
Abies balsamea						+ Rosa multiflora						Agrostis gigantea					
Juniperus communis						Rosa						Agrostis stolonifera					
Juniperus virginiana						Rubus alleghoniensis						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					
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 granulata					
						Salix exigua						Carex hystericina					
						Salix lucida						Carex pensylvanica					
						Salix petiolaris						Carex radiata					
						+ Salix purpurea						Carex retrosa					
TREES and SHRUBS						Salix x rubens						Carex stipata					
Acer negundo						Salix						Carex stricta					
Acer rubrum	X					Sambucus canadensis						Carex vulpinoidea					
Acer saccharinum	X					Sambucus racemosa						Carex virginica					
Acer saccharum						Sorbus aucuparia						Carex Bebbii					
Acer spicatum						Spiraea alba						Carex					
Alnus rugosa						Syringa vulgaris						Carex					
Amelanchier						+ Tilia americana			X			Carex					
Berberis thunbergii						Ulmus americana			X			Carex					
Betula alleghaniensis						Ulmus						Carex					
Betula papyrifera						Vaccinium						Carex					
Carpinus caroliniana	X					Viburnum lentago						Carex					
Carya cordiformis						Viburnum opulus						Cyperus					
Celastrus scandens						Viburnum						Cyperus					
Cornus alternifolia						Vitis riparia						Diactylis glomerata					
Cornus amomum												Dianthionia 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					
Dicervilla lonicera												Glyceria					
Fagus grandifolia												Juncus dudleyi					
Fraxinus americana												Juncus effusus					
Fraxinus nigra	X					FERNS						Juncus tenuis					
Fraxinus pennsylvanica						Adiantum pedatum						Juncus carolinensis					
Hex verticillata						Athyrium filix-femina						Juncus carolinensis					
Juglans cinerea						Botrychium multifidum						Leersia oryzoides					
Juglans nigra						Botrychium virginianum						Muhlenbergia					
Lonicera morrowi						Cystopteris bulbifera						Oryzopsis asperifolia					
Lonicera tatarica						Dryopteris carthusiana						Panicum					
Lonicera						Dryopteris cristata						Panicum					
Malus pumila						Dryopteris marginalis						Phalaris arundinacea					
Ostrya virginiana						Dryopteris						Phleum pratense					
Pachnoclissus inermis	X					Equisetum arvense						Phragmites australis					
Populus balsamifera						Equisetum hyemale						Poa compressus					
Populus grandidentata						Equisetum variegatum						Poa pratensis					
Populus tremuloides						Equisetum						Poa					
Populus						Gymnocarpium dryopteris						Scirpus atrovirens					
Prunus pennsylvanica						Lycopodium digitatum						Scirpus cyperinus					
Prunus serotina						Lycopodium obscurum						Scirpus validus					
Prunus virginiana						Lycopodium						Scirpus					
Prunus						Lycopodium						Scirpus					
Quercus macrocarpa	X					Mattuceia struthiopteris						Setaria					
Quercus rubra						Onoclea sensibilis						Sparganium					
Quercus						Osmunda cinnamomea						Typha angustifolia					
Rhamnus cathartica						Osmunda regalis						Typha latifolia					
Rhus radicans	X					Polystichum acrostichoides						Typha X glauca					
Rhus typhina						Pteridium aquilinum											
Ribes americana						Thelypteris palustris											
Ribes cynosbati																	
Ribes x rubrum																	
Rubus pseudo-acacia																	

ELC	SITE: <i>Browder 483</i>		
	POLYGON: <i>(E16-2)</i>		
WILDLIFE	DATE: <i>July 5, 2011</i>		
	SURVEYORS: <i>JK + Andrea</i>		
	START TIME:	END TIME:	

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

POTENTIAL WILDLIFE HABITAT:

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

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
<i>B</i>	<i>Redwing Blackbird</i>								
<i>M</i>	<i>Deer</i>	<i>TK</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)

Bluewater Feature: 483_BLW1036

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

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



October 17 2011

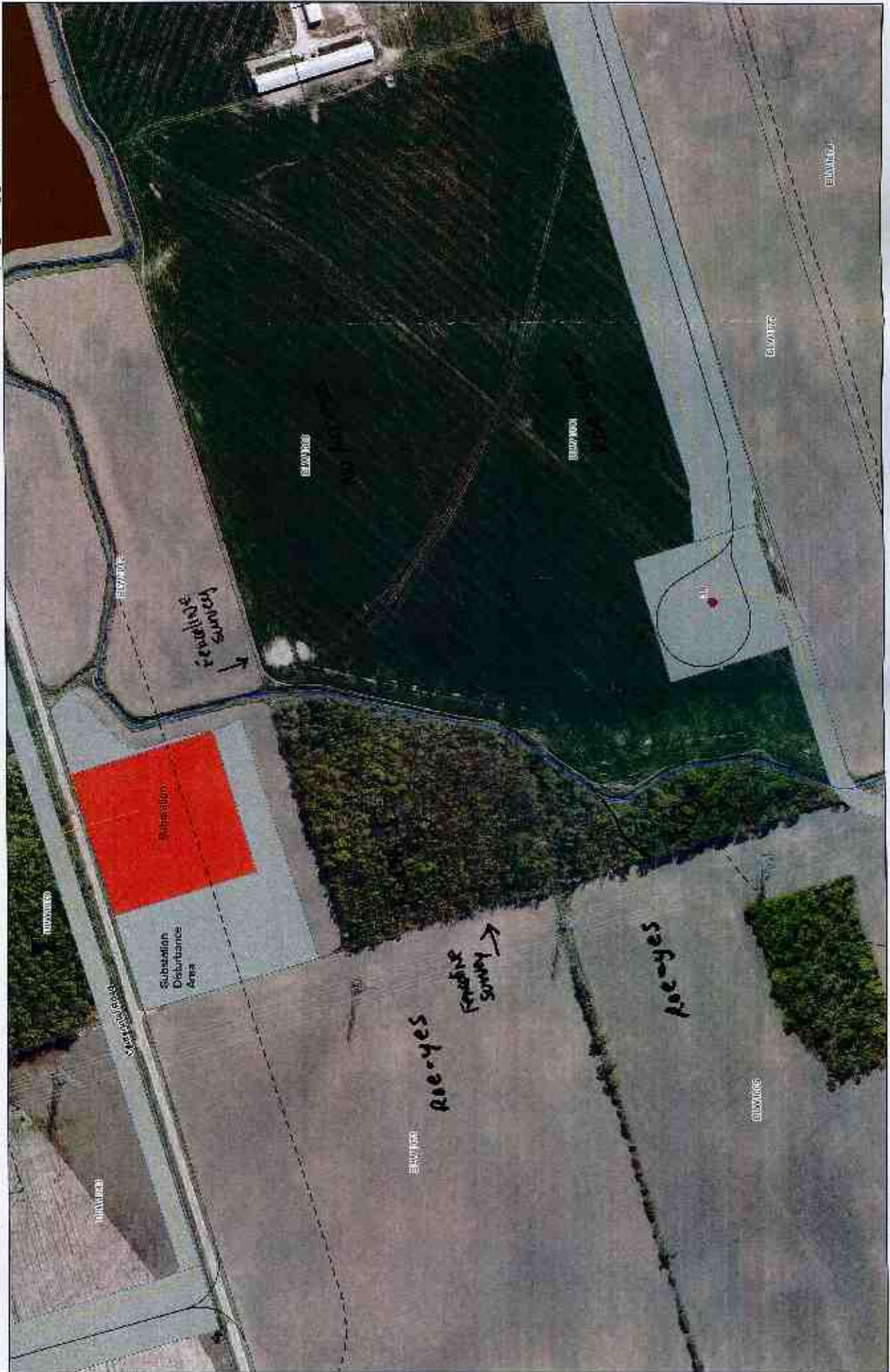
100 Meters



- ELC Survey Contours
- Turbine Buffer/Structure Interests
- Property Fabric
- Bluewater Wind Energy Corridor



483- BLW 1087



Fertilizer Storage

Pump Station

Substation Disturbance Area

Aceryes

Relative Survey

ELEVATION

ELEVATION

ELEVATION

ELEVATION

ELEVATION

ELEVATION

ELEVATION

ELEVATION

ELEVATION

* ASA Fenceline *

ELC Community Description and Classification

Site: BLW 483 from BLN 482 Polygon: 1

Surveyor(s): N&H Date: Nov. 22/01 Time start: 11:30am

UTMZ: _____ UTMZ: _____ UTMN: _____

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 type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Mtn. <input type="checkbox"/> Acidic Bedrk <input type="checkbox"/> Basal 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"/> Tacheland <input type="checkbox"/> Roll. Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Telle <input type="checkbox"/> Crevices/Cave <input type="checkbox"/> Aivar <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"/> Barron <input type="checkbox"/> Meadow <input type="checkbox"/> Prairie <input type="checkbox"/> Thicket <input type="checkbox"/> Savannah <input type="checkbox"/> Woodland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (=> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	ACE SAC > FRAGRAN = FRAXER > CARCOR
2	3	2	ACE SAC > FRAGRAN = FRAXER > PUNUS sp
3	2	2	forbs in winter conditions
4			

HT Codes: 7 < 0.2m 0 < 0.2-0.5m 0 < 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:

0 < 10	A	10-24	A	25-50	R	> 50
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

Ecotope: FRESH-MOIST SWAMPY/MLKE DECIDUOUS FOREST Code: FUDGE

Vegetation Type: FRESH-MOIST SWAMPY/MLKE-HARDWOOD DECIDUOUS Code: FUDGE-5

Inclusion: _____ Code: _____

Complex: _____ Code: _____

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Tally 5	Tally 6	Tally 7	Tally 8	Tally 9	Tally 10	Total
Basal Area (BA)											100
Dead											

Soils Ontario and ELC Soils Description

Soils Ontario	PI/Auger #	Soils Description	Summary
Zone			Molature Regime
Easting			
Northing			
Position			
Aspect			
Percent			
Slope			Drainage
Length			
Mottles			
Clay			
Water Table			
Carbonates			
Bedrock			
1	Depth from zero	% CF	% CF
Texture			
2	Depth from zero	% CF	% CF
Texture			
3	Depth from zero	% CF	% CF
Texture			
4	Depth from zero	% CF	% CF
Texture			
% Surface Stone/Rock			
Molature Regime			
Drainage			

ELC WILDLIFE	SITE: BLW-483	
	POLYGON:	
	DATE: Nov. 22/11	
	SURVEYORS: NBH	
	START TIME: 11:30 am	END TIME: 1:30 pm

TEMP (°C): 6°	CLOUD (10th): 100	WIND:	PRECIPITATION: none
CONDITIONS: Windy, wind shifts			

POTENTIAL WILDLIFE HABITAT:

<input checked="" type="checkbox"/> VERNAL POOLS	<input checked="" type="checkbox"/> SNAGS	Abundant
<input type="checkbox"/> HIBERNACULA	<input checked="" type="checkbox"/> FALLEN LOGS	Abundant
<input checked="" type="checkbox"/> Nest (hickory)	<input checked="" type="checkbox"/> Cavities	

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Canis Canis	SC		4					
M	Rodent	FE	hickory nut	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)

Bluewater Feature: 484_BLW1437/1438
 (Properties that contain Features within 125m from Collection Lines and 171.5m from Turbines)

Note:
 Site still needs collection
 line & access road layout.



August 28, 2011



- 484_BLW1437/BLW1438**
- Access/Collection Line
 - Collection Buffer (125m)
 - Turbine Buffer (171.5m)
 - Other Turbine Buffer
 - Property Fabric
 - Breakable
 - Wind Energy Zone



ELC
Community Description and Classification

Site: 484_BLW14378 Polygon: A 14:40
 Surveyor(s): JK Date: Sept 28/11 Time start: finish:
 UTMZ: 453395 UTMN: 4815460

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"/> Organic <input type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Mln. <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"/> Alluv <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 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) (> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	Acetree >>> Prapern
2	3	1	Wormwood - Acetree
3			
4	6	2	Cixgray - Ast land

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 0.5-1m 4 < 1-2m 3 > 2-4m 2 > 6-25m 1 > 25m
 CVR Codes: 0 = none 1 0% 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition: N = None R = Rare O = Occasional A = Abundant

Size Class Analysis:	Standing Stage:	Deadfall / Log:
< 10: O	< 10: R	< 10: O
10-24: A	10-24: R	10-24: R
25-50: O	25-50: R	25-50: R
> 50: R	> 50: R	> 50: R

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

Ecotope: Sump Maple Mixed Swamp
Vegetation Type: SWD 3-3
Inclusion:
Complex:

Community Profile Diagram/Comments
 Seasonally flooded Swamp. No water at present

Notes:
 * Turn Over

Tree Tally by Species

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

Soils Ontario and ELC Soils Description

Site Metrics	PIVAuger #		Summary
	Zone	Easting	
UTM			
Northing			
Position			
Aspect			
Percent			
Slope			
Length			
Mottles		15	
Gley		20	
Water Table		> 35	
Carbonates			
Bedrock			
Depth from zero	1	5	% CF
Texture		black organic	
Depth from zero	2	15	% CF
Texture		dark to brown silty clay	
Depth from zero	3	35	% CF
Texture		gray clay	
Depth from zero	4		% CF
Texture			
% Surface Stone/Rock			
Moisture Regime			
Drainage			

(B) Ash Swamp fringe to wetter Swamp Maple

UTM 453415 / 4815525

2-4 Frapenn \Rightarrow Acetree

3-3 Umaner $>$ Acetree $>$ Rhacath.

4-2 Rhacath.

6-3 Astlanc - Cxgvaax

Veg Type SWD2-2

ELC Community Description and Classification	Site: 484_BLW1437	Polygon: C
Surveyor(s): JK	Date: 08/28/11	Time start: 15:30
UTMZ:	UTMZ:	UTMN:

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"/> 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"/> Lacustrine <input type="checkbox"/> Rivine <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
History				
<input type="checkbox"/> Natural <input type="checkbox"/> Cultural				
Cover				
<input type="checkbox"/> Open <input type="checkbox"/> Shrub <input type="checkbox"/> Tree				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (> Much Greater Than; > Greater Than; = About Equal To)
1	3-5	3	Fragaria
2	3-5	4	Rubus
3	4-6	2	Rhus
4	4-6	2	Rhus

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 - 20% 3 25 - 50% 4 > 50%

Stand Composition:	See Class Analysis:	<input type="checkbox"/> A	<10	<input type="checkbox"/> A	10-24	<input type="checkbox"/> A	25-50	<input type="checkbox"/> A	>50
	Standing Snags:	<input type="checkbox"/> A	<10	<input type="checkbox"/> O	10-24	<input type="checkbox"/> O	25-50	<input type="checkbox"/> O	>50
	Deadfall / Logs:	<input type="checkbox"/> A	<10	<input type="checkbox"/> O	10-24	<input type="checkbox"/> O	25-50	<input type="checkbox"/> R	>50

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

Com. Age:	<input type="checkbox"/> Pioneer	<input checked="" type="checkbox"/> Young	<input type="checkbox"/> Mid-Age	<input type="checkbox"/> Mature	<input type="checkbox"/> Old Growth
------------------	----------------------------------	---	----------------------------------	---------------------------------	-------------------------------------

Ecote:	Code:	
Vegetation Type:	Code:	FOD 7-2
Inclusion:	Code:	some ephemeral pools shallow
Complex:	Code:	

Community Profile Diagram/Comments

most Green Ash - ~~some~~ Forest
 some ephemeral pools shallow
 Forest forest, disturbed by edge effects
 enough to Green Ash Swamp further to North

Notes:

Tree Tally by Species

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

Priem Factor 2

Soils Ontario and ELC Soils Description

Site Metrics	Plu/Auger #	Summary
Zone	#1	
Easting		
Northing		
Position		
Aspect		
Percent		
Slope		
Length	25	
Mottles		
Gley		
Water Table		
Carbonates		
Bedrock		
Depth from zero	20 % CF	% CF
Texture	dark brown loam	% CF
Depth from zero	35 % CF	% CF
Texture	gray vs sandy silt	% CF
Depth from zero	% CF	% CF
Texture		% CF
Depth from zero	% CF	% CF
Texture		% CF
Depth from zero	% CF	% CF
Texture		% CF
% Surface Stone/Rock		
Moisture Regime		
Drainage		

VASCULAR PLANT CHECKSHEET

Location: Blue Water 484
 Observer: Komstien

Date: Sept 28/2011
 Job Number:

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						Allium plantago-aquaticum	
Actaea pachypoda						Erigeron philadelphicus	X	X					Plantago major						Allium tricoccum	
Actaea rubra						Erigeron strigosus							Plantago rugellii						Allium	
Agalinus						Erysimum cheiranthoides							Podophyllum peltatum					X	Arisaema triphyllum	
Agrimonia gryposepala			X			Eupatorium maculatum							Polygonum						Asparagus officinalis	
Affaria peltata			X			Eupatorium perforatum							Polygonum						Celis palustris	
Amaranthus retrofractus						Eupatorium rugosum							Polygonum						Clinantia borealis	
Ambrosia artemisiifolia	X					Euphorbia							Polygonum lapathifolium						Corvailleria majus	
Amphispiza brevicauda						Euthamia graminifolia							Polygonum persicaria	X					Dryopedium caeruleum	
Anaphalis margaritacea						Fragaria virginiana			X				Potentilla						Elaeagnus canadensis	
Anemone						Fragaria vesca							Potentilla norvegica						Epipactis helleborina	
Anemone canadensis						Galopsis tetralix							Potentilla recta						Erythronium americanum	
Anemone virginiana			X			Gallium							Prunella alba						Hemerocallis fulva	
Antennaria neglecta			X			Gallium							Prunella vulgaris						Iris versicolor	
Apocynum androsaemifolium						Gallium palustre							Pyrola elliptica						Lemna minor	
Apocynum cannabinum						Gallium triflorum							Ranunculus						Lemna trisulca	
Aquilegia canadensis						Geranium maculatum							Ranunculus abortivus						Lilium	
Aralia nudicaulis						Geranium robertianum							Ranunculus acris						Malanthemum canadense	
Arctium minus						Geum aleppicum							Rudbeckia hirta						Malanthemum racemosum	
Artemisia						Geum canadense	X	X					Rumex acetosella						Malanthemum stellata	
Asarum canadense						Geum							Rumex crispus		X				Platanthera	
Asclepias incarnata						Glecoma hederacea							Rumex						Purshia cordata	
Asclepias syriaca	X					Hepatica acutiloba							Sanguinaria canadensis						Polygostemum pubescens	
Aster						Hesperis matronalis							Saricula marilandica						Potamogeton crispus	
Aster cordifolius						Hieracium aurantiacum							Saponaria officinalis						Potamogeton peclinetus	
Aster ericoides						Hieracium caespitosum							Satureja vulgaris						Potamogeton	
Aster lanceolatus	X		X			Hieracium							Scutellaria galericulata						Potamogeton	
Aster latifolius	X					Hydrophyllum virginianum							Silene vulgaris						Potamogeton	
Aster macrophyllus						Hypericum perforatum							Sium suave						Sagittaria latifolia	
Aster novae-angliae	X					Impatiens capensis							Solanum dulcamara						Sisyrinchium montanum	
Aster puniceus						Impatiens							Solidago						Smilax herbacea	
Barbarea vulgaris						Lacluca							Solidago altissima		X				Spiranthes cornuta	
Bidens cernua						Laportea canadensis							Solidago caesia						Spiradola polytricha	
Bidens frondosa						Lepena communis							Solidago canadensis						Streptopus roseus	
Boehmeria cylindrica			X			Leonurus cardica							Solidago flexiculis						Trillium erectum	
Caltha palustris						Lepidium							Solidago gigantea						Trillium grandiflorum	
Calysstegia sepium						Liraria vulgaris							Solidago nemoralis						Uvularia grandiflora	
Cardamine diphylla						Lithospermum officinale							Solidago rugosa							
Cardamine						Labella							Sonchus oleraceus							
Caulyphyllum thalictroides						Labella inflata							Sonchus asper							
Cerastium fontanum						Lotus corniculatus							Stellaria							
Cerastophyllum demersum						Lycopus americanus							Tanacetum vulgare							
Chelidonium majus						Lycopus							Taraxacum officinale							
Chenopodium album						Lysimachia ciliata							Thalictrum dioicum							
Chrysanth. leucanthemum						Lytium salicaria							Thalictrum pubescens							
Cichorium intybus	X		X			Medicago lupulina							Tiarella cordifolia							
Cicuta						Medicago sativum							Tragopogon pratensis							
Circaea leuetiana						Melilotus alba							Trientalis borealis							
Cirsium arvense						Mentha arvensis			X				Trifolium							
Cirsium vulgare						Mimulus ringens							Trifolium pratense							
Clematis virginiana						Mimulus ringens							Trifolium repens							
Clinantia borealis						Mullea diphylla							Tussilago farfara							
Coryza canadensis						Moranda fistulosa							Urtica dioica							
Coronilla varia						Mycostis							Utricularia vulgaris							
Cynanchum rossicum						Nasturtium officinale							Verbascum thapsus							
Cynoglossum officinale						Nepeta cataris							Verbena hastata			X				
Daucus carota						Nuphar variegatum							Verbena urticifolia							
Desmodium canadense						Nymphaea odorata							Veronica							
Dianthus ameria						Oenothera biennis							Veronica officinalis							
Dipsacus furciform	X					Osmorhiza							Vicia cracca							
Echinocystis lobata						Oxalis stricta							Vicia tetrasperma							
Echium vulgare						Phytol. leptocactya							Vicia							
Epilobium						Physalis heterophylla							Viola							
Epilobium ciliatum													Viola pubescens							
Epilobium hirsutum													Viola sororia			X				
Epilobium parviflorum																				

- 1: BLW 1937
- 2:
- 3: BLW 1938
- 4:
- 5:
- 6:

SITE LOCATIONS

ELC WILDLIFE	SITE: 484 BLW 1437 & 1438	
	POLYGON:	
	DATE: Sept 28	
	SURVEYORS: Kaminstra	
START TIME:		END TIME:

TEMP (°C): 20	CLOUD (10th): 9	WIND: 2	PRECIPITATION: 0
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

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

I rolled over many

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	BLJA	VO				Cabbage			
	AMCR								
	BOCH								
	AMRD								

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: 484_BLW1438/1437

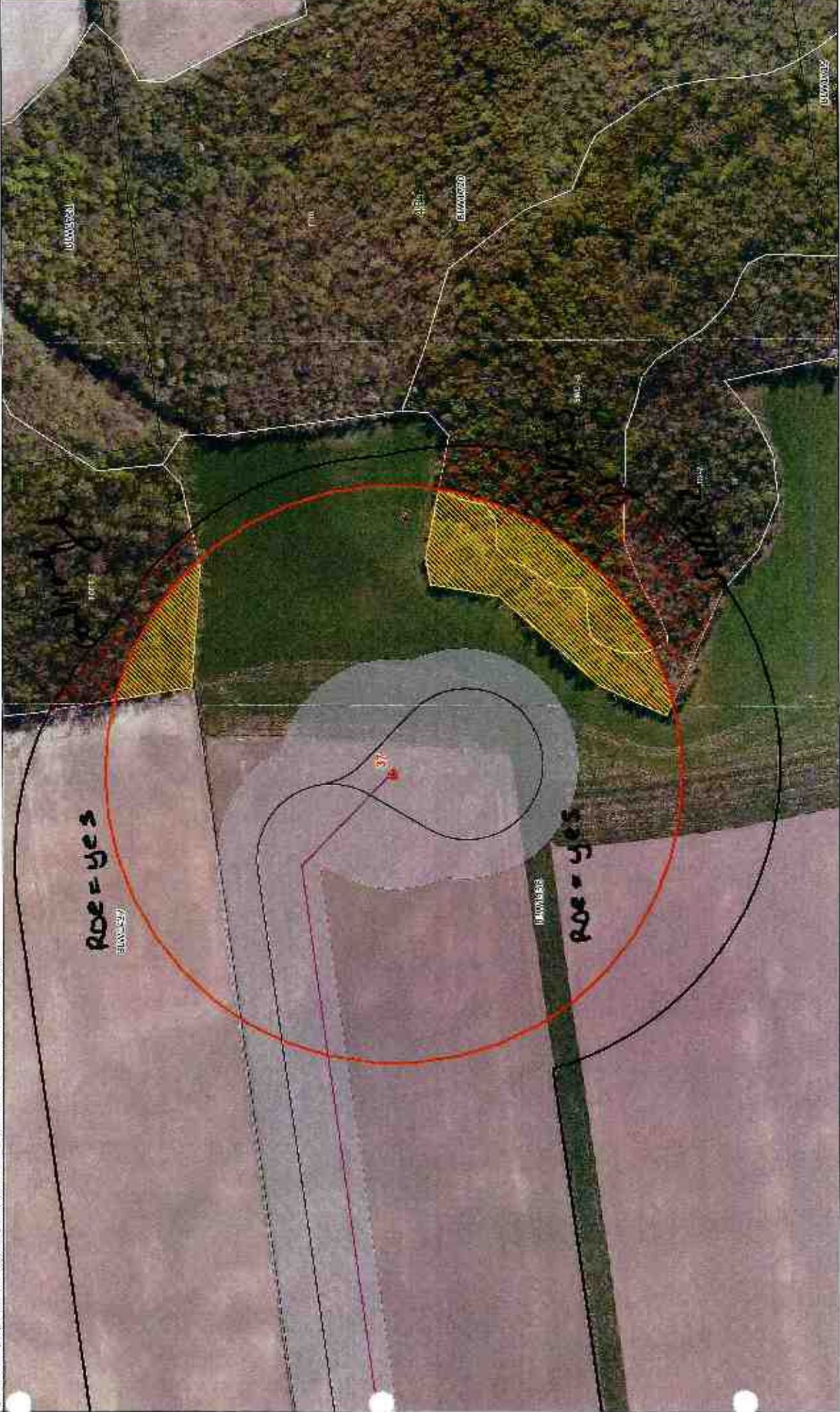
(Additional properties to be surveyed due to changes in the Collection & Road layout)

10/19/2011
October 17, 2011



- Rights
- Access/Collection Line
- Survey to be Completed
- Turbine Buffer (1.1 km)

- LLC Survey Complete
- Turbine Buffer/Features Intersect
- Proposed Paths
- Bluewater Wind Energy Centre



Control

5 MW 10 / GE 16-11

Completed Aug 17/11 - SAM

Bluewater Access Road / Collection Lines

487-81W1032/BLW1023

Rules

↑ No Access for all (Aug 2011)

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access

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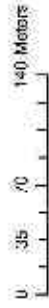
↑ No Access

↑ No Access

↑ No Access

↑ No Access

↑ No Access



*** Only 3 polygons**
with intrusions of ③

$$g = N_0 \text{ (hay)}$$
$$q = N_0 \text{ (two small cuts)}$$

101-647-1065A

BLW1032

Photos with
W.P. 240
G.M. in small
BLW1032

④

① w.p. 241
photos with
101-653-10659

②

⑤ w.p.
photos with
101-669-10622

③

BLW1033

Photos with
W.P. 240
G.M. in small
BLW1033

101-653-10659

BLW1034

BLW1040

Photos of GE 16-11
collection completed
May 13/11 - J.P.

ELC Community Description and Classification

Site: **R/W 487** Polygon: **D 43 (Can Incisions)**

Surveyor(s): **SAM** Date: **Aug 17/11** Time start: **1403h** finish: **176h**

UTMZ: _____ UTMZ: _____

Tree Tally by Species

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

Prism Factor: **2**

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 checked="" type="checkbox"/> Mineral Soil	<input type="checkbox"/> Riverine	<input checked="" 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"/> Site am
	<input type="checkbox"/> Basic Bedrk	<input type="checkbox"/> Valley Slope	<input type="checkbox"/> Forb	<input type="checkbox"/> Marsh
	<input type="checkbox"/> Carb. Bedrk	<input type="checkbox"/> Tableland	<input type="checkbox"/> Lichen	<input type="checkbox"/> Swamp
		<input checked="" type="checkbox"/> Roll, Upland	<input type="checkbox"/> Bryophyte	<input type="checkbox"/> Fen
		<input type="checkbox"/> Cliff	<input type="checkbox"/> Deciduous	<input type="checkbox"/> Bog
History		<input type="checkbox"/> Talus	<input checked="" type="checkbox"/> Coniferous	<input type="checkbox"/> Barren
<input type="checkbox"/> Natural		<input checked="" type="checkbox"/> Crevice/Cave	<input type="checkbox"/> Mixed	<input type="checkbox"/> Meadow
<input checked="" type="checkbox"/> Cultural		<input type="checkbox"/> Alluvial		<input type="checkbox"/> Prairie
Cover		<input type="checkbox"/> Rockland		<input type="checkbox"/> Thicket
<input type="checkbox"/> Open		<input type="checkbox"/> Beach / Bar		<input type="checkbox"/> Savanna
<input type="checkbox"/> Shrub		<input type="checkbox"/> Sand Dune		<input type="checkbox"/> Woodland
<input checked="" type="checkbox"/> Treed		<input type="checkbox"/> Bluff		<input type="checkbox"/> Forest
				<input checked="" type="checkbox"/> Plantation

Stand Description

Species in Order of Decreasing Dominance (up to 7 sp)
 (> Much Greater than; > Greater than; = About Equal; To)

1	3-7	4	White Pine	>> Sourcherry	> Apple	> Aw
2	3	2	White Pine	>> Aw	> Apple	
3	5-4	2	Aw	> Panicled Aster	> Calico Aster	> Red Raspberry
4	7-6	2	Strawberry	> Aw	> PIH	

HT Codes: 7 < 0.2m 6 < 0.2-0.8m 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 - 50% 4 > 50%

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

Standing Snags: < 10: _____ 10-24: _____ 25-50: _____ > 50: _____

Deadfall / Lngs: < 10: _____ 10-24: _____ 25-50: _____ > 50: _____

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

Community Profile Diagram / Comments

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

Ecosite: **Coniferous Plantation** Code: **CUP3**

Vegetation Type: **White Pine Coniferous Plantation Type** Code: **CUP3-2**

Inclusion: ~~Plantation Type~~

Complex: **Dry-Moist Old Field Meadow Type** Code: **CUMT-1**

Community Profile Diagram / Comments

Layer	HT	CVR	Species
1	3-7	4	White Pine
2	3	2	White Pine
3	5-4	2	Aw
4	7-6	2	Strawberry

Soils Ontario and ELC Soils Description

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

ELC Plant Species List	SITE: BLW 487
	POLYGON: ① + ③ (CUM Inclusions)
	DATE: Aug. 17/11
	SURVEYOR(S): SAM

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

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

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Whitepine	D				
Apple		O			
Orch Grass			R		
Panicled Aster			O		
Sour Cherry	O				
Aw	O		A	O	
strawberry				A	
Rasp			O		
Mt				R	
Milkweed			R		
Calico Aster			O		

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
③ CUM Inclusions (Complex)					
QALace		D			
Milkweed		O			
Orchard Grass		A			
* Smooth Brome		D			
Whitepine	D	O			
Aw	R				
NE Aster			O		
Wild Mint				A	
Frost Aster			A		
Tall Grod		O			
R-O Ragweed				D	
strawberry				A	
Grape					
Pan. Aster			O		
Field Bindweed					
Cratogeomys punctata		O			
Yell Avens			O		
Sm. St. b/m.					
Blk niche					
Pot. nov.					
Self Heal				A	
Alfalfa			A		
Com. Speedwell				D	
Birds foot Trefoil					
Eur. Groundwell			O		
Redtop			O		
Bw					

ELC WILDLIFE	SITE: <u>BLW 487</u> <u>1023 / 1032</u>		
	POLYGON: <u>1-4</u>		
	DATE: <u>Aug 17/11</u>		
	SURVEYORS: <u>SAM</u>		
	START TIME: <u>1403 h</u>	END TIME: <u>1716 h</u>	
TEMP (°C): <u>26</u>	CLOUD (10th): <u>2</u>	WIND: <u>2-3</u>	PRECIPITATION: <u>nil</u>
CONDITIONS: <u>warm, clear, breezy</u>			

POTENTIAL WILDLIFE HABITAT:

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

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	SAUS	OB		2					
B	GRCA	SM		1					
L	Monarch	OB		4					
B	SOSP	SM		2					
B	GHSP	SM		1					
B	AMGO	VO		3					
B	BCCH	SM		1					

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
Description and
Classification

site: **BLW 487** Polygon: **5**
 Surveyor(s): **SAM** Date: **Aug. 17/11** Time start: **1545h** finish: **1716h**
 UTMZ: **17T** UTMZ: **UTMN:**

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input type="checkbox"/> Terrestrial <input checked="" 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 checked="" type="checkbox"/> Riverine <input type="checkbox"/> Bottomland <input type="checkbox"/> Terrace <input type="checkbox"/> Valley Stone <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"/> Aiver <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 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"/> Savinneh <input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (> Much Greater Than; > Greater Than; = About Equal To)
1	2-1	4	MA >> Be >> BA >> Aw
2	2-3	3	MA >> Ew >> Aw >> BA
3	3-4	3	MA >> Aw >> Bw >> Y
4	6-7	2-3	Enchan ted Nightshade > Yellow Awns > Be > Aw

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 0.5-1m 4 > 1-2m 3 > 2-5m 2 > 6-25m > 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	A 10-24	A 25-50	O > 50
Deadfall / Logs:	A < 10	A 10-24	R 25-50	R > 50

BA: 21

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

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

Ecosite: **Dry-Fresh Sugar Maple Deciduous Forest** Code: **F005**
 Vegetation Type: **Dry-Fresh Sugar Maple-Beech Deciduous Forest Type** Code: **F005-2**
 Inclusion: Code:
 Complex: Code:

Community Profile Diagram/Comments

Moisture Regime	Fresh (2)	Mod Moist (4)	Very Fresh (3)	Very Fresh (3)
Drainage	Mod-well (4)	Imperfect (5)	Imperfect (5)	Imperfect (5)

Notes:

Tree Tally by Species

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Prism Factor
Be	2	2	3		7	2
BA	2	5	5		10	23
BA	6	2	2		10	52
BA	1	0	1		2	16
EW	0	1	0		1	6
Total	10	10	12		32	100
Dead	2	0	2		4	

Soils Ontario and ELC Soils Description

Site Metrics	Plu/Auger #	Soils Description	Summary
UTM	WP 224 (1)	WP 225 (2)	(New P)
Zone			
Easting			
Northing			
Position			
Aspect	SW		
Percent	5		
Slope	3m		
Length			
Mottles	> 120	34	74
Gley	> 120	> 120	> 120
Water Table	> 120	> 120	> 120
Carbonates	42	17	39
Bedrock	> 120	> 120	> 120
1	Depth from zero	% CF	% CF
2	Texture	% CF	% CF
3	Depth from zero	% CF	% CF
4	Texture	% CF	% CF
	% Surface Stone/Rock		
	Moisture Regime		
	Drainage		

Soil Horizon Description	1	2	3	4	% CF	% CF
Depth from zero	0	0	0	0	0	0
Texture	SiCL	SiCL	SiCL	CL	SiCL	SiCL
Depth from zero	17	12	5	23	23	23
Texture	CL	CL	CL	CL	CL	CL
Depth from zero	29	25	5	34	34	34
Texture	C	C	C	C	C	C
Depth from zero						
Texture						
% Surface Stone/Rock						
Moisture Regime	Fresh (2)	Mod Moist (4)	Very Fresh (3)	Very Fresh (3)	Very Fresh (3)	Very Fresh (3)
Drainage	Mod-well (4)	Imperfect (5)	Imperfect (5)	Imperfect (5)	Imperfect (5)	Imperfect (5)

ELC Plant Species List	SITE: <u>BLW 487</u>
	POLYGON: <u>(5)</u>
	DATE: <u>Aug 17/11</u>
	SURVEYOR(S): <u>SAM</u>

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

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

SPECIES CODE	LAYER				COLL.	SPECIES CODE	LAYER				COLL.
	1	2	3	4			1	2	3	4	
Pt						Laek					
Sour Cherry						Early Meadow Rue					
MH	D	D				Bloodroot					
Aw	O	A				Blk Elder					
Ench Ntshd						Spine Wood fern					
Bo	O	A				Wt Trillium					
Be	A	O				False Sol. Seal					
Chokecherry						Solidago Caesia					
Bristly Blk Currant						White Lettuce					
Apple						Can. Mayflower					
Cb	R	O				BS Ntshd					
Self Heal											
Pl											
Wood Strawb.											
Herb Robt											
Yellow Anem S											
Zigzag Grod											
Helleborine											
White Poplar											
Ip	O	A									
Swamp Currant											
Shagbar K Hickory		R									
Can Buck											
Wt Raspberry											
Jack											
Garlic Must.											
Yellow Anem S											
By	R										

* Bluewater 487

VASCULAR PLANT CHECKSHEET

Location:

SMN10/GEK-11

Date:

3 Aug 17/11

Observer:

SAM

Job Number:

DICOT HERBS	1						2						3						4						5						6					
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6						
Achillea millefolium																																				
Actaea pachypoda				X																																
Actaea rubra																																				
Agalinus																																				
Agrimonia gryposepala																																				
Alliaria petiolata				X																																
Amaranthus retroflexus																																				
Ambrosia artemisiifolia																																				
Amphicarpaea baccata																																				
Anaphalis margaritacea																																				
Anemone																																				
Anemone canadensis																																				
Anemone virginiana																																				
Antennaria neglecta																																				
Apocynum androsaemifolium																																				
Apocynum cannabinum																																				
Aquilegia canadensis																																				
Arnica montana																																				
Artemisia																																				
Asarum canadense																																				
Asclepias incarnata																																				
Asclepias syriaca		X	X																																	
Aster pilosus																																				
Aster cordifolius																																				
Aster ericoides																																				
Aster lanceolatus		X	X																																	
Aster laevis																																				
Aster macrophyllus																																				
Aster novae-angliae																																				
Aster puniceus																																				
Barbarea vulgaris																																				
Bidens cernua																																				
Bidens frondosa																																				
Boehmeria cylindrica																																				
Callitriche palustris																																				
Calyptegia sepium																																				
Cardamine																																				
Cardamine																																				
Caulophyllum thalictroides																																				
Cerastium fontanum																																				
Cerastium vulgatum																																				
Chenopodium demersum																																				
Chelidonium majus																																				
Chenopodium album																																				
Chrysanthemum leucanthemum																																				
Cichorium intybus																																				
Cicuta																																				
Circaea leutetiana																																				
Cirsium arvense																																				
Cirsium vulgare																																				
Clematis virginiana																																				
Clintonia borealis																																				
Coryza canadensis																																				
Coronilla varia																																				
Cynanchum officinale																																				
Cynoglossum officinale																																				
Daucus carota																																				
Desmodium canadense																																				
Dianthus armeria																																				
Dipsacus fullonum																																				
Echinocystis lobata																																				
Echium vulgare																																				
Epilobium																																				
Epilobium ciliatum																																				
Epilobium hirsutum																																				
Epilobium parviflorum																																				
Convolvulus																																				
Convolvulus																																				

- 1: Polygon #1 complex
- 2: Polygon #3 (inclusion in #1)
- 3: Polygon #5

SITE LOCATIONS

- 4: _____
- 5: _____
- 6: _____