

VASCULAR PLANT CHECKSHEET

Location: Bluewater 510
 Observer: Kamstra

Date: May 26 / 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					Alisma plantago-aquatica
Actaea pachypoda						Erigeron philadelphicus						Plantago major					Allium tricoccum
Actaea rubra	X					Erigeron strigosus						Plantago rugellii	X				Allium
Agalinus						Erysimum chieranthoides						Podophyllum peltatum	X				Arisaema triphyllum
Agriomonia gryposepala						Eupatorium maculatum						Polygonum					Asparagus officinalis
Alliaria petiolata	X					Eupatorium perfoliatum						Polygonum					Calla palustris
Amaranthus retrofractus						Eupatorium rugosum						Polygonum					Clintonia borealis
Ambrosia artemisiifolia						Euphorbia						Polygonum lapathifolium					Convallaria majus
Amphicarpaea baccata						Euthamia graminifolia						Polygonum persicaria					Cyrtopodium calceolus
Anaphalis margaritacea						Fragaria virginiana						Potentilla					Eleocharis canadensis
Anemone						Fragaria vesca	X					Potentilla norvegica					Epipactis helleborine
Anemone canadensis						Galeopsis tetrahit						Potentilla recta					Erythronium americanum
Anemone virginiana						Galium						Pranthesis alba					Hemerocallis fulva
Antennaria neglecta						Galium						Prunella vulgaris					Iris versicolor
Apocynum androsaemifolium						Galium palustre						Pyrola elliptica					Lemna minor
Apocynum cannabinum						Galium triflorum						Ranunculus <u>repens</u>	X				Lemna trisulca
Aquilegia canadensis						Geranium maculatum						Ranunculus abortivus					Lilium
Aralia nudicaulis						Geranium robertianum	X					Ranunculus acris					Melanthium canadense
Axodium minus						Geum alepense						Rutaecchia hirta					Melanthium racemosum
Artemisia						Geum canadense	X					Rumex acetosella					Melanthium stellata
Asarum canadense						Geum <u>virginicum</u>	X					Rumex crispus					Platanthera
Asclepias incarnata						Giacoma hederacea						Rumex <u>obtus</u>	X				Pontederia cordata
Asclepias syriaca						Hepatica acutiloba						Sanguinaria canadensis					Polygonatum pubescens
Aster						Hesperis matronalis						Sanicula marilandica					Potamogeton crispus
Aster cordifolius						Hieracium aurantiacum						Saponaria officinalis					Potamogeton pectinatus
Aster ericoides						Hieracium caespitosum						Satureja vulgaris					Potamogeton
Aster lanceolatus	X					Hieracium						Scutellaria galericulata					Potamogeton
Aster lateriflorus						Hydrophyllum virginianum						Silene vulgaris					Potamogeton
Aster macrophyllus						Hypoxis perforatum						Sium suave					Sagittaria latifolia
Aster novae-angliae						Impatiens capensis	X					Solanum dulcamara	X				Sisynchium montanum
Aster purpureus						Inula helenium						Solidago					Sisynchium montanum
Barbarea vulgaris						Lactuca						Solidago altissima					Sisynchium montanum
Bidens cernua						Laportea canadensis	X					Solidago canadensis					Sisynchium montanum
Bidens frondosa						Lapezia communis						Solidago canadensis					Sisynchium montanum
Boehmeria cylindrica						Leonurus cardiaca						Solidago flexicaulis	X				Sisynchium montanum
Callitriche palustris						Lepidium						Solidago gigantea	X				Sisynchium montanum
Calystegia sepium						Linaria vulgaris						Solidago nemoralis	X				Sisynchium montanum
Cardamine hirsuta						Lithospermum officinale						Solidago rugosa					Sisynchium montanum
Cardamine <u>lacustris</u>	X					Lobelia						Sonchus oleraceus					Sisynchium montanum
Caulophyllum thalictroides	X					Lobelia inflata						Sonchus asper					Sisynchium montanum
Cerastium fontanum						Lotus corniculatus						Stellaria					Sisynchium montanum
Ceratophyllum demersum						Lycopus americanus						Tanacetum vulgare					Sisynchium montanum
Chelidonium majus						Lycopus						Taraxacum officinale	X				Sisynchium montanum
Chenopodium album						Lysimachia ciliata						Thalictrum dicicum	X				Sisynchium montanum
Chrysanth. leucanthemum						Lythrum salicaria						Thalictrum pubescens					Sisynchium montanum
Clethra alnifolia						Medicago lupulina						Tiarella cordifolia					Sisynchium montanum
Cnicus						Medicago sativum						Tragopogon pratensis					Sisynchium montanum
Cirsium leucanthemum						Mollis alba						Trientalis borealis					Sisynchium montanum
Cirsium arvense						Monarda arvensis						Trifolium					Sisynchium montanum
Cirsium vulgare						Mimulus ringens						Trifolium pratense					Sisynchium montanum
Clematis virginiana						Mimulus ringens						Trifolium repens					Sisynchium montanum
Clintonia borealis						Mitella diphylla						Tussilago farfara					Sisynchium montanum
Coryza canadensis						Monarda fistulosa						Urtica dioica					Sisynchium montanum
Coronilla varia						Mycosis						Urtica dioica					Sisynchium montanum
Cynanchum rossicum						Nasturtium officinale						Urtica dioica					Sisynchium montanum
Cynoglossum officinale						Nepeta cataria						Urtica dioica					Sisynchium montanum
Daucus carota						Nepeta cataria						Urtica dioica					Sisynchium montanum
Desmodium canadense						Nepeta cataria						Urtica dioica					Sisynchium montanum
Dianthus armeria						Nepeta cataria						Urtica dioica					Sisynchium montanum
Dipsacus fullonum						Nepeta cataria						Urtica dioica					Sisynchium montanum
Echinocystis lobata						Nepeta cataria						Urtica dioica					Sisynchium montanum
Echium vulgare						Nepeta cataria						Urtica dioica					Sisynchium montanum
Epilobium						Nepeta cataria						Urtica dioica					Sisynchium montanum
Epilobium ciliatum						Nepeta cataria						Urtica dioica					Sisynchium montanum
Epilobium hirsutum						Nepeta cataria						Urtica dioica					Sisynchium montanum
Epilobium parviflorum						Nepeta cataria						Urtica dioica					Sisynchium montanum

- 1: GE 16-20 120 4: _____
 2: GE 16-20 SWP 5: _____
 3: _____ 6: _____

SITE LOCATIONS

Bluewater Feature: 510_BLW1010

Properties that contain Features within 125m from Collection lines and 7.1 km from Turbines

- ↑ Roads
- Access/Collection Line
- Collection Buffer (125m)
- Turbine Buffer (7.1 km)
- Uncollected areas identified
- Turbine Buffer/Feature Interest
- Property Fabric
- Bluewater Wind Energy Corridor

August 29, 2011



1

ELC
Community Description and Classification

Site: 510_BLWrens 1010 Polygon: 2

Surveyor(s): Kenneth Date: Sept 2/11 Time start: 9:45 finish: 10:45

UTMZ: 17T UTMZ: 449275 UTMN: 4817250

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input type="checkbox"/> Aquatic <input type="checkbox"/> Site	<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"/> 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

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (> Much Greater Than, > Greater Than, = About Equal To)
1	23	4	<u>Acacia >> Prunus - Thayer - Fagiana</u>
2	3	4	<u>Acacia > Ostia</u>
3	4	13	<u>Prunus</u>
4	6	13	<u>Acacia Prunus</u>

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%

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

Abundance Codes: N = None R = Rare O = Occasional A = Abundant
 Colm. Age: Pioneer Young Mid-Age Mature Old Growth

Ecotope: FOD 5-1

Vegetation Type: epheral pools

Inclusion:

Complex:

Community Profile Diagram/Comments
Mid Age woodlot - old stumps present, large
young existing trees

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	PI/Auger #	Soils Description				Summary
Zone	<u># 1</u>					
Easting						
Northing						
Position						
Aspect	<u>W</u>					
Percent	<u>1</u>					
Slope						
Length						
Mottles						
Gley						
Water Table						
Carbonates						
Bedrock						
Depth to...						
1	Depth from zero:	<u>70</u>	% CF		% CF	
	Texture:	<u>loamy brown</u>				
2	Depth from zero:	<u>30</u>	% CF		% CF	
	Texture:	<u>orange grey VP sandy silt</u>				
3	Depth from zero:		% CF		% CF	
	Texture:					
4	Depth from zero:		% CF		% CF	
	Texture:					
	% Surface Stone/Rock					
	Moisture Regime					
	Drainage					

2

ELC
Community Description and Classification

Site: BHWIND 510 Polygon: 10:45

Surveyor(s): Kamstra Date: Sept 2/11 Time start: 10:45 finish:

UTMZ: 449215 UTMN: 4817180

Polygon Description

System	Substrato	Topographic Feature	Plant Form	Community
<input 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 type="checkbox"/> Bedrock <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 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 checked="" type="checkbox"/> Bottomland <input type="checkbox"/> Floating-LVD <input type="checkbox"/> Graminoid <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"/> Flankton <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	2	3	<u>Fraxinus</u>
2	3	3	<u>Castanea</u> > <u>Fraxina</u> > <u>Acer nig.</u>
3			
4	5/6	4	<u>Impatiens</u> >> <u>Cpx</u> - <u>Ast late</u>

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 > 50-100m 10 > 100m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 50 - 75% 5 75 - 90% 6 90 - 100%

Stand Composition: Size Class Analysis: A < 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

Ecosite: Code: SND2-2

Vegetation Type: Code: SND2-2

Inclusion: Code:

Complex: Code:

Community Profile Diagram/Comments

Broken Canyon Ash Swamp; Pop. partially created by old farm logging tracks

* Note Need A/P intersp to identify boundaries

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

Piv/Auger # <u>#1</u>		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	
% Surface Stone/Rock		% CF	
Moisture Regime		% CF	
Drainage		% CF	

Soil Horizon Description

1 Depth from zero 30 % CF
 Texture dark brown silty loam
 2 Depth from zero 40 % CF
 Texture mid brown silty clay
 3 Depth from zero % CF
 Texture % CF
 4 Depth from zero % CF
 Texture % CF

VASCULAR PLANT CHECKSHEET

Location: Bluewater
 Observer: J. Kanstra

510

Date: Sept 2, 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						
						<i>Ergaron annuus</i>						<i>Plantago lanceolata</i>						<i>Allium plantago-aquaticum</i>					
						<i>Ergaron philadelphicus</i>						<i>Plantago major</i>						<i>Allium tricoccum</i>					
						<i>Ergaron strigosus</i>						<i>Plantago rugellii</i>						<i>Allium</i>					
						<i>Erysimum chieranthoides</i>						<i>Padiophyllum peltatum</i>						<i>Arisaema triphyllum</i>					
						<i>Eupaterium maculatum</i>						<i>Polygonum</i>						<i>Asparagus officinalis</i>					
						<i>Eupatorium perfoliatum</i>						<i>Polygonum</i>						<i>Cela palustris</i>					
						<i>Eupatorium rugosum</i>						<i>Polygonum</i>						<i>Clintonia borealis</i>					
						<i>Euphorbia</i>						<i>Polygonum leptophyllum</i>						<i>Corallaria majus</i>					
						<i>Euthamia graminifolia</i>						<i>Polygonum persicaria</i>						<i>Cypripedium calceolus</i>					
						<i>Fragaria virginiana</i>						<i>Potentilla</i>						<i>Elodea canadensis</i>					
						<i>Fragaria vesca</i>						<i>Potentilla norvegica</i>						<i>Epipedia helleborine</i>					
						<i>Galeopsis tetrahit</i>						<i>Potentilla recta</i>						<i>Erythronium americanum</i>					
						<i>Galium</i>						<i>Prenanthes alba</i>						<i>Hemerocallis fulva</i>					
						<i>Galium pilosum</i>						<i>Prunella vulgaris</i>						<i>Iris versicolor</i>					
						<i>Galium triflorum</i>						<i>Pyrola elliptica</i>						<i>Lemna minor</i>					
						<i>Geranium maculatum</i>						<i>Renunculus</i>						<i>Lemna trisulca</i>					
						<i>Geranium robertianum</i>						<i>Ranunculus abortivus</i>						<i>Lilium</i>					
						<i>Geum aleppicum</i>						<i>Ranunculus acris</i>						<i>Melandrium canadense</i>					
						<i>Geum canadense</i>						<i>Rudbeckia hirta</i>						<i>Melandrium racemosum</i>					
						<i>Geum (Lycopodium)</i>						<i>Rumex acetosella</i>						<i>Melandrium stellata</i>					
						<i>Glaucium federata</i>						<i>Rumex crispus</i>						<i>Phacelia</i>					
						<i>Hepatica acutiloba</i>						<i>Rumex</i>						<i>Portulaca cordata</i>					
						<i>Hesperis matronalis</i>						<i>Sanguinaria canadensis</i>						<i>Polygonatum pubescens</i>					
						<i>Hieracium aurantiacum</i>						<i>Sanguinaria marilandica</i>						<i>Potamogeton crispus</i>					
						<i>Hieracium cespitosum</i>						<i>Saponaria officinalis</i>						<i>Potamogeton pectinatus</i>					
						<i>Hieracium</i>						<i>Sedum vulgare</i>						<i>Potamogeton</i>					
						<i>Hydrophyllum virginianum</i>						<i>Scutellaria galericulata</i>						<i>Potamogeton</i>					
						<i>Hypoxis perfoliatum</i>						<i>Sium suave</i>						<i>Sagittaria latifolia</i>					
						<i>Impatiens capensis</i>						<i>Solanum dulcamara</i>						<i>Sisyrinchium montanum</i>					
						<i>Inula inelenium</i>						<i>Solidago</i>						<i>Smilax herbacea</i>					
						<i>Lactuca</i>						<i>Solidago altissima</i>						<i>Spiranthes cernua</i>					
						<i>Laportea canadensis</i>						<i>Solidago basalis</i>						<i>Spiridela polytriza</i>					
						<i>Lapsana communis</i>						<i>Solidago canadensis</i>						<i>Strotopus roseus</i>					
						<i>Leonurus cardaca</i>						<i>Solidago flexicaulis</i>						<i>Trifolium erectum</i>					
						<i>Lepidium</i>						<i>Solidago gigantea</i>						<i>Trifolium grandiflorum</i>					
						<i>Linaris vulgaris</i>						<i>Solidago nemoralis</i>						<i>Uvularia grandiflora</i>					
						<i>Lithospermum officinale</i>						<i>Solidago rugosa</i>											
						<i>Labella</i>						<i>Sonchus oleraceus</i>											
						<i>Labella inflata</i>						<i>Sonchus asper</i>											
						<i>Lotus corniculatus</i>						<i>Stellaria</i>											
						<i>Lycopus americanus</i>						<i>Tenaculum vulgare</i>											
						<i>Lycopus</i>						<i>Taraxacum officinale</i>											
						<i>Lysimachia ciliata</i>						<i>Thalictrum dioicum</i>											
						<i>Lythrum salicaria</i>						<i>Thalictrum pubescens</i>											
						<i>Medicago lupulina</i>						<i>Tharrella cordifolia</i>											
						<i>Medicago sativum</i>						<i>Tragopogon pratensis</i>											
						<i>Melilotus albus</i>						<i>Trifolium borealis</i>											
						<i>Mentha arvensis</i>						<i>Trifolium</i>											
						<i>Mimulus ringens</i>						<i>Trifolium pratense</i>											
						<i>Mimulus ringens</i>						<i>Trifolium repens</i>											
						<i>Mitella diphylla</i>						<i>Tusellago lanata</i>											
						<i>Monarda fistulosa</i>						<i>Urtica dioica</i>											
						<i>Myosotis</i>						<i>Urticularia vulgaris</i>											
						<i>Nasturtium officinale</i>						<i>Verbascum thapsus</i>											
						<i>Nepeta cataria</i>						<i>Verbena hastata</i>											
						<i>Nuphar variegatum</i>						<i>Verbena urticifolia</i>											
						<i>Nymphaea odorata</i>						<i>Veronica</i>											
						<i>Oenothera biennis</i>						<i>Veronica officinalis</i>											
						<i>Osmorhiza</i>						<i>Viola cracca</i>											
						<i>Oxalis stricta</i>						<i>Viola lasiocarpa</i>											
						<i>Phytolacca tetralectra</i>						<i>Viola</i>											
						<i>Physalis heterophylla</i>						<i>Viola pubescens</i>											
						<i>Ptilis pinnatifida</i>						<i>Viola sororia</i>											
												<i>Ranunc. recurv.</i>											

SITE LOCATIONS

- 1: BLW 1679 510 along Centerville Rd
 2: _____
 3: BLW 1010 Feetux 510
 4: _____
 5: _____
 6: _____

ELC WILDLIFE	SITE: <u>BLW 1010</u> <u>510</u>		
	POLYGON: <u>N of Turbine</u>		
	DATE: <u>Sept 2 / 2011</u>		
	SURVEYORS: <u>J Kamstra</u>		
	START TIME: <u>9:45</u>	END TIME: <u>11:15</u>	
TEMP (°C): <u>23</u>	CLOUD (10th): <u>1</u>	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

VERNAL POOLS	SNAGS
HIBERNACULA	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	AMRO	VO			L	Common Sulfur			
	GRCA	VO			L	Cabbage			
	EWPE	VO							
	BCH	VO							
	HOWR	OB							
	RBGR	VO							
	TUVU	OB			M	WT Deer	TK	fresh	
	AMCR	VO							
	AMSC	VO							
H	Green Frog	OB		10+					
H	Gr. Treefrog	VO		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: 610_BLW 1679 Polygon: A

Surveyor(s): Kowstka Date: Sept 2/11 Time start: 8:15 finish: 8:15

UTMZ: 419430 UTMN: 4816065

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
<input 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 type="checkbox"/> Bedrock	<input type="checkbox"/> Organic <input type="checkbox"/> Mineral Soil <input type="checkbox"/> Parent Min. <input checked="" 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"/> Upland <input type="checkbox"/> Cliff <input type="checkbox"/> Talus <input type="checkbox"/> Crevice/Cave <input type="checkbox"/> Avar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<input type="checkbox"/> Flankton <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 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	13	4	Ace frax >>> Frax penn
2		3	Ace frax > Alnus inc Frax penn
3			
4	6	4	Asplanc - Glycfr - Rhazadi - Impscape

HT Codes: 7 < 0.2m 6 > 0.2-0.5m 5 > 0.5-1m 4 > 1-2m 3 > 2-3m 2 > 3-6.25m 1 > 6.25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition: Size Class Analysis:

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

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

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

Ecotope: SVD

Vegetation Type: SVD 3-3

Inclusion:

Complex:

Community Profile Diagram/Comments

Native Greenway Maple Swamp - Seasonal pooling
 No water at present

Notes:

* Turn over
 FOD community E of SVD

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 #	1			Summary
UTM		Zone				Moisture Regime
Slope		Easting	449430			
		Northing	4816065			Drainage
		Position	level			
		Aspect				Effective Texture (indicate below)
		Percent				
		Slope				% CF
		Length	20			
		Mottles				% CF
		Gley				
Depth to		Water Table	765 but soil moist to surface			% CF
		Carbonates				
		Bedrock				% CF
		1	35	0	0	
		Texture	dark brown silty clay			% CF
		2	65	0	0	
		Texture	mid gray silty clay			% CF
		3				
		Depth from zero				% CF
		Texture				
		4				% CF
		Depth from zero				
		Texture				% CF
		% Surface Stone/Rock				
		Moisture Regime				% CF
		Drainage	poor			

Moist Deciduous

Sept 2/2011

UTM - 17T 449530 / 4816060

Polygon B

1/2 - 4 Acesacn > Faggrn > Fagrpenn

3 - 3 Acesacu caricaro

6 - 4 Rhuradi - Ast-lawe - Pariruse - Geaurber

Size class <10 A <25 A >25 O
Mature

Veg Type FOD

Soil level terrain
mottles 15cm

Depth 15cm
dark brown loam

Depth 35cm
mid gray v/sandy silt

VASCULAR PLANT CHECKSHEET

Location: Bluewater
 Observer: J. Kamstra

510

Date: Sept 2, 2011

Job Number:

DICOT HERBS									MONOCOT HERBS																		
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8											
Chilites millefolia									Erigeron annuus	X							Plantago lanceolata										
Actaea pachypoda			X						Erigeron philadelphicus	X							Plantago major				X						
Actaea rubra									Erigeron strigosus							Plantago rugelii				X							
Agalinus									Erythronium chieranthoides							Podophyllum peltatum											
Agrostis gryposepala									Eupatorium maculatum							Polygonum											
Allaria petiolaris	X								Eupatorium perfoliatum							Polygonum											
Amaranthus retrofractus									Eupatorium rugosum							Polygonum lapathifolium											
Ambrosia artemisiifolia									Euphorbia							Polygonum persicaria					X						
Amphicarpaea bracteata									Euthamia graminifolia							Potentilla											
Arnica montana									Fragaria virginiana							Potentilla norvegica											
Anemone canadensis									Fragaria vesca	X	X					Potentilla recta											
Anemone virginiana									Galeopsis tetrahit							Prenanthes alba											
Antennaria neglecta									Galium							Prunella vulgaris					X						
Apocynum androsaemifolium									Galium palustre							Pyrola elliptica											
Apocynum cannabinum									Galium triflorum							Renunculus scutellariifolius	X										
Aquilegia canadensis									Geranium maculatum	X						Renunculus abortivus					X						
Arnica nudicaulis									Geranium robertianum	X						Renunculus acris											
Arcium minus	X								Geum aleppicum							Rudbeckia hirta											
Artemisia									Geum canadense	X	X					Rumex acetosella											
Asarum canadense									Geum carolinianum	X	X					Rumex crispus											
Asclepias incarnata									Geum carolinianum	X	X					Rumex											
Asclepias syriaca									Giscoma hederacea							Sanguinaria canadensis					X						
Aster									Hepatica acutiloba							Sanicula marilandica											
Aster cordifolius									Hesperis matronalis							Saponaria officinalis											
Aster ericoides									Hieracium aurantiacum							Salureja vulgaris											
Aster lanceolatus	X								Hieracium caespitosum							Scutellaria galericulata											
Aster laevis	X								Hieracium							Silene vulgaris											
Aster macrophyllus	X								Hydrophyllum virginianum							Sium suave											
Aster novae-angliae									Hypoxis perfoliatum							Solanum dulcamara	X				X						
Aster pulchellus									Impatiens caperata	X	X					Solidago											
Barbarea vulgaris									Inula helianthi							Solidago altissima	X				X						
Bidens cernua									Lactuca							Solidago caesia											
Bidens frondosa									Laportea canadensis							Solidago canadensis											
Boehmeria cylindrica	X								Lapsana communis							Solidago flexicaulis					X	X					
Caltha palustris									Leonurus cardiaca							Solidago gigantea					X						
Calyptegia septium									Legidium							Solidago nemoralis											
Cardamine diphylla									Liraria vulgaris							Solidago rugosa											
Cardamine									Utricularia officinalis							Sonchus oleraceus											
Ceanothium thalictroides									Lobelia							Sonchus asper											
Cerastium fontanum									Lobelia tincta							Stellaria											
Ceratophyllum demersum									Lotus corniculatus							Tanacetum vulgare											
Chelidonium majus									Lycopus americanus					X		Taraxacum officinale											
Chenopodium album									Lycopus							Thalictrum dioicum											
Chrysanth. leucanthemum									Lythrum salicaria							Thalictrum pubescens											
Clethra alnifolia									Medicago lupulina							Tierella cordifolia											
Cnicus									Medicago sativum							Tragopogon pratensis											
Circaea lutetiana	X								Mollis alba							Trientalis borealis											
Cirsium arvense									Mentha arvensis							Trifolium											
Cirsium vulgare									Mimulus ringens							Trifolium pratense											
Clematis virginiana									Mimulus ringens							Trifolium repens											
Clintonia borealis									Mitella diphylla							Tussilago farfara											
Coryza canadensis									Monarda fistulosa							Urtica dioica											
Coronilla varia									Mycoselia							Utricularia vulgaris											
Cynanchum rossicum									Naeturium officinale							Verbascum thapsus											
Cynoglossum officinale									Nepeta cataria							Verbena hastata											
Daucus carota									Nuphar variegatum							Verbena urticifolia											
Desmodium canadense									Nymphzasa odorata							Veronica											
Dianthus armeria									Oenothera biennis							Veronica officinalis											
Dipsacus fullonum									Osmorhiza							Vicia cracca											
Echinocystis lobata									Oxalis stricta	X						Vicia tetrasperma											
Echium vulgare									Phyma leptostachya							Viola											
Epilobium									Physalis heterophylla							Viola pubescens							X				
Epilobium ciliatum	X	X							<u>Pilea pumila</u>					X		Viola sororia							X				
Epilobium hirsutum																<u>Ranunc. recurva</u>	X						X				
Epilobium parviflorum																											

SITE LOCATIONS

- 1: BLW 1671 510 along Centerville
- 2: _____
- 3: BLW 1010 Forest 510

ELC	SITE: <u>BLW 1679</u> <u>510 at Centennial Road</u>
	POLYGON:
WILDLIFE	DATE: <u>Sept 2, 2011</u>
	SURVEYORS: <u>J Kraustveit</u>
	START TIME: <u>8:15</u> END TIME:

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

POTENTIAL WILDLIFE HABITAT:

<input checked="" type="checkbox"/> VERNAL POOLS	<u>possibly</u>	<input checked="" type="checkbox"/> SNAGS	<u>few</u>
<input type="checkbox"/> HIBERNACULA		<input checked="" type="checkbox"/> FALLEN LOGS	
<input checked="" type="checkbox"/> Trees w Cavities			

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	FWPE	VO							
B	HOWR	OB	<u>family group</u>						
B	RWBL	VO							
B	SOSP	OB							
B	AMCR	VO							
B	RBGR	VO							
B	WBNU	VO							
B	DOWO	VO							
B	INRU	VO							
B	BAOR	VO							
H	Gr Treefrog	VO							

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)

512

BT3 - June 29, 2011 - ELC - Roadside



FLC community description classification

Site: Brewington 512 Polygon: 3 512

Surveyor(s): _____ Date: Jun 29, 2011 Time start: 7:34 finish: 4:30

UTMZ: _____ UTMZ: _____ UTMN: _____

Polygon Description X Redwood *

System	Subsystem	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"/> 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"/> Aivar <input type="checkbox"/> Rockland <input type="checkbox"/> Beach / Bar <input type="checkbox"/> Sand Dune <input type="checkbox"/> Bluff	<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"/> Fan <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	Notes
1			
2			
3			
4	<u>34</u>	<u>CALEX - Typo - Schenck - Grass</u>	

HT Codes: 7 < 0.2m 8 > 0.2-0.5m 9 > 0.5-1m 4 > 1-2m 5 > 2-4m 2 > 4-6-25m 1 > 25m
 CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition

	< 10	10-24	25-50	> 50
Tree	< 10	10-24	25-50	> 50
Shrub	< 10	10-24	25-50	> 50

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

Community: Pioneer Young Mid-Age Mature Old Growth

Soils

Soil: Mineral Meadow Marsh Ecotone

Soil: MAMZ

Community Profile Diagram/Comments

SWAMP Community next to Cedar Swamp

Tree Tally by Species

Species	Tally	%	Notes
Redwood			
...			

Soils Ontario and ELC Soils Description

Soil Horizon Description	Depth to				Summary
	1	2	3	4	
Depth from zero	% CF	% CF	% CF	% CF	Moisture Regime
Texture	% CF	% CF	% CF	% CF	
Depth from zero	% CF	% CF	% CF	% CF	Drainage
Texture	% CF	% CF	% CF	% CF	
Depth from zero	% CF	% CF	% CF	% CF	Effective Texture (indicate below)
Texture	% CF	% CF	% CF	% CF	
Depth from zero	% CF	% CF	% CF	% CF	% CF
Texture	% CF	% CF	% CF	% CF	
% Surface Stoner/Rack					% CF
Moisture Regime					
Drainage					

ELC community description classification

Site: Blowdown 512 Polygon: 513-512

Surveyor(s): JL-AB Date: June 29, 2011 Time start: 2:34 finish: 9:16

UTMZ: _____ UTMZ: _____ UTMZ: _____

Polygon Description W. roadside

System	Subsystem	Life Form	Community
<input type="checkbox"/> Terrestrial <input type="checkbox"/> Wetland <input checked="" 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"/> 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

1 9 6310V - WIMMER - ACENEGUN - TAMER

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

Stand Composition	< 10	10-24	25-50	> 50
...	< 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

Vegetation	Forest	Code:	
Plant	Fresh-Moist Inland Deciduous	Code:	F007
Community	Forest Ecotone	Code:	

Community Profile Diagram/Comments

*Community by location near waterway
only few cedar recorded near water
concentrated away*

Tree Tally by Species

Species	Tally	Pct	Factor
...	2

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #	Soils Ontario and ELC Soils Description				Summary
		Zone	Easting	Northing	Position	
EM						
SP						
Depth to...						
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
3	Depth from zero	% CF	% CF	% CF	% CF	
	Texture					
4	Depth from zero	% CF	% CF	% CF	% CF	
	Texture					
	% Surface Stone/Rock					
	Moisture Regime					
	Drainage					

Location: B73 BLM-512
 Observer: Jim Andree

VASCULAR PLANT CHECKSHEET

Date: June 29, 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						
<i>Achillea millefolium</i>						<i>Erigeron annuus</i>						<i>Plantago lanceolata</i>						<i>Allium plantago-aquaticum</i>					
<i>Actaea pachypoda</i>						<i>Erigeron philadelphicus</i>						<i>Plantago major</i>						<i>Allium tricoccum</i>					
<i>Actaea rubra</i>						<i>Erigeron strigosus</i>						<i>Plantago rugelii</i>						<i>Allium</i>					
<i>Agallium</i>						<i>Erysimum chrysanthoides</i>						<i>Podophyllum peltatum</i>						<i>Arisaema triphyllum</i>					
<i>Agropyron gryposepalum</i>						<i>Eupatorium maculatum</i>						<i>Polygonum</i>						<i>Asparagus officinalis</i>					
<i>Ailanthus petiolata</i>						<i>Eupatorium perfoliatum</i>						<i>Polygonum</i>						<i>Calla palustris</i>					
<i>Amaranthus retroflexus</i>						<i>Eupatorium rugosum</i>						<i>Polygonum</i>						<i>Cilantro borealis</i>					
<i>Ambrosia artemisiifolia</i>						<i>Euphorbia</i>						<i>Polygonum lapathifolium</i>						<i>Coccolaria majus</i>					
<i>Amphicarpaea bracteata</i>						<i>Eulharia graminifolia</i>						<i>Polygonum persicaria</i>						<i>Cypripedium calceolus</i>					
<i>Anaphalis margaritacea</i>						<i>Fragaria virginiana</i>						<i>Potentilla</i>						<i>Eleocharis canadensis</i>					
<i>Anemone</i>						<i>Fragaria vesca</i>						<i>Potentilla canadensis</i>						<i>Epipactis helleborine</i>					
<i>Anemone canadensis</i>						<i>Galeopsis tetrahit</i>						<i>Potentilla recta</i>						<i>Erythronium americanum</i>					
<i>Anemone virginiana</i>						<i>Galium</i>						<i>Pronanthes alba</i>						<i>Hemerocallis fulva</i>					
<i>Antennaria neglecta</i>						<i>Galium</i>						<i>Prunella vulgaris</i>						<i>Iris versicolor</i>					
<i>Apocynum androsaemifolium</i>						<i>Galium palustre</i>						<i>Pyrola elliptica</i>						<i>Lemna minor</i>					
<i>Apocynum cannabinum</i>						<i>Galium triflorum</i>						<i>Ranunculus</i>						<i>Lemna trisulca</i>					
<i>Aquilegia canadensis</i>						<i>Geranium maculatum</i>						<i>Ranunculus abortivus</i>						<i>Lilium</i>					
<i>Aralia nudicaulis</i>						<i>Geranium robertianum</i>						<i>Ranunculus acris</i>						<i>Melantherum canadense</i>					
<i>Arctium minus</i>						<i>Geum aleppicum</i>						<i>Rudbeckia hirta</i>						<i>Melantherum racemosa</i>					
<i>Artemisia</i>						<i>Geum canadense</i>						<i>Rumex acetosella</i>						<i>Melantherum stellatum</i>					
<i>Asarum canadense</i>						<i>Geum</i>						<i>Rumex crispus</i>						<i>Psibanthus</i>					
<i>Asclepias incarnata</i>						<i>Glechoma hederacea</i>						<i>Rumex</i>						<i>Parietaria cordata</i>					
<i>Asclepias syriaca</i>						<i>Hepatica acutiloba</i>						<i>Sanguinaria canadensis</i>						<i>Polygonatum pubescens</i>					
<i>Aster</i>						<i>Hesperis matronalis</i>						<i>Santoula marilandica</i>						<i>Polygonatum crispus</i>					
<i>Aster cordifolius</i>						<i>Hieracium aurantiacum</i>						<i>Saponaria officinalis</i>						<i>Potamogeton pectinatus</i>					
<i>Aster praeoides</i>						<i>Hieracium caespitosum</i>						<i>Satureja vulgaris</i>						<i>Potamogeton</i>					
<i>Aster lanceolatus</i>						<i>Hieracium</i>						<i>Scutellaria perfoliata</i>						<i>Potamogeton</i>					
<i>Aster lateriflorus</i>						<i>Hydrophyllum virginianum</i>						<i>Silene vulgaris</i>						<i>Sagittaria latifolia</i>					
<i>Aster macrophyllus</i>						<i>Hypericum perforatum</i>						<i>Siium suave</i>						<i>Sisynohium montanum</i>					
<i>Aster nove-angliae</i>						<i>Impatiens capensis</i>						<i>Solanum elaeagnaria</i>						<i>Solidago herbacea</i>					
<i>Aster puniceus</i>						<i>Irula helenium</i>						<i>Solidago</i>						<i>Spiranthes cernua</i>					
<i>Barbarea vulgaris</i>						<i>Lactuca</i>						<i>Solidago altissima</i>						<i>Spiridola polytricha</i>					
<i>Bidens cernua</i>						<i>Laportea canadensis</i>						<i>Solidago ocea</i>						<i>Streptopus roseus</i>					
<i>Bidens frondosa</i>						<i>Lapsana communis</i>						<i>Solidago canadensis</i>						<i>Trillium erectum</i>					
<i>Besleria cylindrica</i>						<i>Lecanurus cordatus</i>						<i>Solidago flexuosula</i>						<i>Trillium grandiflorum</i>					
<i>Calla palustris</i>						<i>Lepidium</i>						<i>Solidago gigantea</i>						<i>Urtica grandiflora</i>					
<i>Callistegia sepium</i>						<i>Linaria vulgaris</i>						<i>Solidago nemoralis</i>											
<i>Cardamine diphylla</i>						<i>Lithospermum officinale</i>						<i>Solidago rugosa</i>											
<i>Cardamine</i>						<i>Lobelia</i>						<i>Sonchus oleraceus</i>											
<i>Caulophyllum thalictroides</i>						<i>Lobelia inflata</i>						<i>Sonchus asper</i>											
<i>Cerastium fontanum</i>						<i>Lotus corniculatus</i>						<i>Stalaria</i>											
<i>Ceratophyllum demersum</i>						<i>Lycopus americanus</i>						<i>Tanacetum vulgare</i>											
<i>Chelidonium majus</i>						<i>Lycopus</i>						<i>Taraxacum officinale</i>											
<i>Chenopodium album</i>						<i>Lysimachia clethra</i>						<i>Thalictrum flavum</i>											
<i>Chrysanth. leucanthemum</i>						<i>Lytium salicaria</i>						<i>Thalictrum pubescens</i>											
<i>Cichorium intybus</i>						<i>Medicago lupulina</i>						<i>Therapsid</i>											
<i>Cicuta</i>						<i>Medicago sativum</i>						<i>Tragopogon pratensis</i>											
<i>Cirsium leucanthemum</i>						<i>Melilotus alba</i>						<i>Trifolium boreale</i>											
<i>Cirsium arvense</i>						<i>Mentha arvensis</i>						<i>Trifolium</i>											
<i>Citralum vulgare</i>						<i>Mimulus ringens</i>						<i>Trifolium pratense</i>											
<i>Clematis virginiana</i>						<i>Mimulus ringens</i>						<i>Trifolium repens</i>											
<i>Cilantro borealis</i>						<i>Mullein</i>						<i>Tuesalago farfara</i>											
<i>Coryza canadensis</i>						<i>Mullein</i>						<i>Urtica dioica</i>											
<i>Coryza</i>						<i>Monarda fistulosa</i>						<i>Urticularia vulgaris</i>											
<i>Crocodylia verta</i>						<i>Myosotis</i>						<i>Verbascum thapsus</i>											
<i>Cynanchum rossicum</i>						<i>Nasturtium officinale</i>						<i>Verbena hastata</i>											
<i>Cynoglossum officinale</i>						<i>Nepeta calaria</i>						<i>Verbena strictifolia</i>											
<i>Clausus carpa</i>						<i>Nuphar variegatum</i>						<i>Veronica</i>											
<i>Dasmodium canadense</i>						<i>Nymphaea odorata</i>						<i>Veronica officinalis</i>											
<i>Dianthus ameria</i>						<i>Oenothera biennis</i>						<i>Vicia cracca</i>											
<i>Dipsacus fullorum</i>						<i>Oenothera</i>						<i>Vicia tetrasperma</i>											
<i>Echinocystis lobata</i>						<i>Oxalis stricta</i>						<i>Viola</i>											
<i>Echium vulgare</i>						<i>Phytolacca americana</i>						<i>Viola</i>											
<i>Epilobium</i>						<i>Physalis heterophylla</i>						<i>Viola pubescens</i>											
<i>Epilobium ciliatum</i>												<i>Viola sororia</i>											
<i>Epilobium heterotum</i>																							
<i>Epilobium parviflorum</i>																							

1: SWD/SWM
 2: AAM
 3:

4:
 5:
 6:

SITE LOCATIONS

Bluewater Feature: 514_BLW1656

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

0 25 50 100 Meters

October 17, 2011



Road

- Access/Calculation Line
- Survey is as Completed
- Turbine Buffer (171.6m)

F.C. Survey Completed

- Turbine Buffer/Feature Release
- Priority Fabric
- Block/Block Release/Block Energy Centre



VASCULAR PLANT CHECKSHEET

Location: *R1W 514*
 Observer: *JD+TS*

Date: *Oct 20, 2011*

Job Number:

MONOCOT HERBS													MONOCOT HERBS											
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6						
<i>Milium millefolium</i>							<i>Erigeron annuus</i>						<i>Plantago lanceolata</i>						<i>Ailium plantago-radiata</i>					
<i>Stachys pachyoda</i>							<i>Erigeron philadelphicus</i>						<i>Plantago major</i>						<i>Allium triquetrum</i>					
<i>Actaea rubra</i>							<i>Erigeron strigosus</i>						<i>Plantago rugelii</i>						<i>Ailium</i>					
<i>Agalinis</i>							<i>Erysimum cheiranthoides</i>						<i>Podopterygium peltatum</i>						<i>Arisaema triphyllum</i>					
<i>Agrimonia gryposepala</i>							<i>Eupatorium maculatum</i>						<i>Polygonum</i>						<i>Ageragrus officinalis</i>					
<i>Alliaria petiolaris</i>							<i>Eupatorium perfoliatum</i>						<i>Polygonum</i>						<i>Carya palustris</i>					
<i>Amaranthus retrofractus</i>							<i>Eupatorium rugosum</i>						<i>Polygonum</i>						<i>Cirsium boreale</i>					
<i>Ambrosia artemisiifolia</i>							<i>Euphorbia</i>						<i>Polygonum lapathifolium</i>						<i>Conwallaria majus</i>					
<i>Ampelodesmos lychnoides</i>							<i>Euthamia graminifolia</i>						<i>Polygonum persicaria</i>						<i>Cyrtopodium caespitosum</i>					
<i>Anthriscus vulgaris</i>							<i>Fraxinea virginiana</i>						<i>Potentilla</i>						<i>Elyda canadensis</i>					
<i>Anemone canadensis</i>							<i>Fraxinea vestra</i>						<i>Potentilla norvegica</i>						<i>Epipactis helleborina</i>					
<i>Anemone virginiana</i>							<i>Galeopsis tetrahit</i>						<i>Potentilla recta</i>						<i>Erythronium americanum</i>					
<i>Ariaria neglecta</i>							<i>Galium</i>						<i>Prenanthes alba</i>						<i>Homoglossis fulva</i>					
<i>Apocynum androsaemifolium</i>							<i>Galium palustre</i>						<i>Prunella vulgaris</i>						<i>Iris versicolor</i>					
<i>Apocynum cannabinum</i>							<i>Galium triflorum</i>						<i>Pyrola elliptica</i>						<i>Lemna minor</i>					
<i>Aquilegia canadensis</i>							<i>Geranium maculatum</i>						<i>Ranunculus abortivus</i>						<i>Lemna trisulca</i>					
<i>Arnica montana</i>							<i>Geranium robertianum</i>						<i>Ranunculus acris</i>						<i>Lilium</i>					
<i>Artemisia</i>							<i>Geum aleppicum</i>						<i>Ranunculus hirta</i>						<i>Melanthium canadense</i>					
<i>Asarum canadense</i>							<i>Geum canadense</i>						<i>Rumex crispus</i>						<i>Melanthium racemosum</i>					
<i>Asclepias incarnata</i>							<i>Geum</i>						<i>Rumex crispus</i>						<i>Melanthium stellatum</i>					
<i>Asclepias syriaca</i>							<i>Glechoma hederacea</i>						<i>Rumex</i>						<i>Polygonatum</i>					
<i>Aster</i>							<i>Hepatica acutiloba</i>						<i>Sanguinaria canadensis</i>						<i>Polygonatum crispum</i>					
<i>Aster cordifolius</i>							<i>Hesperis matronalis</i>						<i>Sanicula maritima</i>						<i>Potamogeton pectinatus</i>					
<i>Aster ericoides</i>							<i>Hieracium aurantiacum</i>						<i>Sagittaria officinalis</i>						<i>Potamogeton pectinatus</i>					
<i>Aster lanceolatus</i>							<i>Hieracium caespitosum</i>						<i>Satureja vulgaris</i>						<i>Potamogeton</i>					
<i>Aster laevis</i>							<i>Hieracium</i>						<i>Scutellaria galericulata</i>						<i>Potamogeton</i>					
<i>Aster macrophyllus</i>							<i>Hydrophyllum virginianum</i>						<i>Silene vulgaris</i>						<i>Potamogeton</i>					
<i>Aster novae-angliae</i>							<i>Hypochaeris perforatum</i>						<i>Sium suave</i>						<i>Sagittaria latifolia</i>					
<i>Aster pulchellus</i>							<i>Impatiens capensis</i>						<i>Solanum dulcamara</i>						<i>Silybum marianum</i>					
<i>Barbarea vulgaris</i>							<i>Irula helenium</i>						<i>Solidago</i>						<i>Smilax herbacea</i>					
<i>Bidens cernua</i>							<i>Lactuca</i>						<i>Solidago altissima</i>						<i>Spiranthes cernua</i>					
<i>Bidens frondosa</i>							<i>Lactuca canadensis</i>						<i>Solidago canadensis</i>						<i>Sporobolus polytrichus</i>					
<i>Boehmeria cylindrica</i>							<i>Lactuca corniculata</i>						<i>Solidago flexuosula</i>						<i>Stachys roseus</i>					
<i>Calla palustris</i>							<i>Leontodon</i>						<i>Solidago rigida</i>						<i>Tribulus terrestris</i>					
<i>Calystegia sepium</i>							<i>Linaria vulgaris</i>						<i>Solidago nemoralis</i>						<i>Urtica dioica</i>					
<i>Cardamine diphylla</i>							<i>Lithospermum officinale</i>						<i>Solidago rugosa</i>											
<i>Cardamine</i>							<i>Lobelia</i>						<i>Sonchus oleraceus</i>											
<i>Caulophyllum thalictroides</i>							<i>Lobelia inflata</i>						<i>Sonchus asper</i>											
<i>Cerastium fontanum</i>							<i>Lactuca scariola</i>						<i>Stellaria</i>											
<i>Ceratophyllum demersum</i>							<i>Lycopus americanus</i>						<i>Taraxacum vulgare</i>											
<i>Cheilanthes major</i>							<i>Lycopus</i>						<i>Taraxacum officinale</i>											
<i>Cheilanthes alba</i>							<i>Lysichiton ciliata</i>						<i>Thalictrum dikalcium</i>											
<i>Chrysanthemum leucanthemum</i>							<i>Lysichiton scariosa</i>						<i>Thalictrum pubescens</i>											
<i>Cichorium intybus</i>							<i>Melospiza lupulina</i>						<i>Thalictrum</i>											
<i>Cirsium</i>							<i>Melospiza sativum</i>						<i>Thalictrum</i>											
<i>Cirsium leucanthemum</i>							<i>Melospiza alba</i>						<i>Thalictrum boreale</i>											
<i>Cirsium arvense</i>							<i>Melospiza alba</i>						<i>Trifolium</i>											
<i>Cirsium vulgare</i>							<i>Melospiza alba</i>						<i>Trifolium pratense</i>											
<i>Cirsium virginianum</i>							<i>Melospiza alba</i>						<i>Trifolium repens</i>											
<i>Cirsium boreale</i>							<i>Melospiza alba</i>						<i>Tussilago farfara</i>											
<i>Cirsium canadense</i>							<i>Melospiza alba</i>						<i>Urtica dioica</i>											
<i>Cirsium verticillatum</i>							<i>Melospiza alba</i>						<i>Urtica vulgaris</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Verbascum thapsus</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Verbena hastata</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Verbena unguiculata</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Veronica</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Veronica officinalis</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Viola cretica</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Viola tetrapetala</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Viola</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Viola pubescens</i>											
<i>Cirsium discolor</i>							<i>Melospiza alba</i>						<i>Viola sororia</i>											

SITE LOCATIONS

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