

## Appendix A

### *Field Notes*







Ontario

# Ministry of Natural Resources and Forestry Make-a-Map: Natural Heritage Areas

NAP161

Notes:  
Enter map notes

## Legend

- Assessment Parcel
- Wetland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Planetary Significant Wetland
- Wetland Community Significant
- Wetland Evaluated
- Unassessed Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Wetland (ASIS)
- Provincially Significant Earth Science Area (ESA)

## Greenbelt Plan

- Boundary
- River Valley Corridors
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Plans and Open Space System
- Land Use Designations
- Escarpment Habitat Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Evaluation Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre

## Oak Ridges Moraine Conservation Plan (ORM)

- Boundary
- Land Use Designations
- Natural Linkage Area
- Quaternary Area
- Rural Settlement
- Palaeo-Environments
- Residential Community
- Settlement Area



Projection: Web Mercator

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0.2 km



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Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

NAP161

Notes:  
Enter map notes

Legend

- Assessment Panel
- Woodlot
- Conservation Reserve
- Physical Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland
- Non-Physiologically Significant Wetland
- Uncoloured Wetland
- Area of Natural Heritage & Scientific Interest (ANHSSI)
- Provincially Significant Life Sciences Area
- Provincially Significant Earth Science Area
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Metals Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Heritage Area
- Countryside Area
- Rural Settlement
- Palgrave Estates Residential Community
- Settlement Area



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Projection: Web Mercator

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Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

NAP161

Notes:  
Enter map notes



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland Evaluated
- Non-Provincially Significant Wetland Evaluated
- Unincorporated Wetland
- Area of Natural Heritage & Scientific Interest (ANH SI)
- Provincially Significant Life-Supporting Ecosystem (PSE)
- Provincially Significant Ecosystem (PSE)
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escapement Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escapement Natural Area
- Escapement Protection Area
- Escapement Rural Area
- Mineral Resource Estimation Area
- Escapement Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Language Area
- Countryside Area
- Rural Settlement
- Palimpsest Areas
- Recreational Community
- Settlement Area

Projection: Web Mercator

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0.2 km



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<b>ELC</b>  <b>STAND CHARACTERISTICS</b>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

**TREE TALLY BY SPECIES:**

[illegible]

**STAND COMPOSITION:**

**STAND COMPOSITION:**

## COMMUNITY PROFILE DIAGRAM

COMMON FIRST LINE

\_\_\_\_\_

Notes:

<b>ELC</b> COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <i>Lowland</i>		POLYGON: <i>7</i>	
	SURVEYOR(S): <i>NAB</i>		DATE: <i>June 13</i>	TIME: start <i>5:00</i> finish
	UTMZ	UTME	UTMN	

POI YGON	DESCRIPTION
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POLYGON	DESCRIPTION	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G RIVER	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RAGSTONE	G RIVER	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTLAND	G TERRACE		G FLOATING-LVD.	G STREAM
	G ACIDIC BEDRK.	G VALLEY SLOPE	G BOTTACE		G GRAMINOID	G MARSH
	G BASIC BEDRK.	G TABLELAND	G ROLL		G FORB	G SWAMP
	G CARB. BEDRK.	G CLIFF	G UPLAND		G LICHEN	G PEN
		G TALLUS	G CREVICE / CAVE		G BRYOPHYTE	G BARREN
		G ALVAR	G ROCKLAND	COVER	G DECIDUOUS	G MEADOW
		G BEACH / BAR	G SAND DUNE		G CONIFEROUS	G PRAIRIE
		G BLUFF			G MIXED	G THICKET
SITE						G SAVANNAH
G OPEN WATER				G OPEN		G WOODLAND
G SHALLOW WATER				G SHRUB		G FOREST
G SURFICIAL DEP.				G TREED		G PLANTATION
G BEDROCK						

**STAND DESCRIPTION:**

STAND DESCRIPTION:				SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
LAYER	HT	CVR		
1	CANOPY	3		Sugar Black Maple >>> Beech
2	SUB-CANOPY	3	4	" >>> Ironwood
3	UNDERSTOREY	45	5	Reddish ash > Grey Sycamore
4	GRD. LAYER	67	4	Elm > Hickory > Virginia Sycamore

HT CODES:  
1 = >25 m 2 = 10<H<25 m 3 = 2<H<10 m 4 = 1<H<2 m 5 = 0.5<H<1 m 6 = 0.2<H<0.5 m 7 = H<0.2 m  
a = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

**STAND COMPOSITION:**

CVR CODES		STAND COMPOSITION:		BA: 2	
		Rk. Maple Beech Ironwood			
SIZE CLASS ANALYSIS:		< 10	10 - 24	25 - 50	> 50
		A	C	R	R

**SIZE CLASS ANALYSIS:**

	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:				
DEAD / LOGS:				

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

ABUNDANCE CODES:			PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH	
COMM.	AGE :							

**SOIL ANALYSIS:**

SOIL ANALYSIS:			
TEXTURE: <i>mscl</i>	DEPTH TO MOTTLES / GLEY	<i>g = 449</i>	<i>G = 149</i>
MOISTURE: <i>Dry</i>	DEPTH OF ORGANICS:	<i>2.4m</i>	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	<i>18cm</i>	(cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Dry-Fresh Sugar Maple Beech Deciduous Forest	F0DM5-2
INCLUSION		
COMPLEX		

Notes:





<div> <div>ELC</div> <div>STAND CHARACTERISTICS</div> </div>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

**TREE TALLY BY SPECIES:**

[illegible]

**STAND COMPOSITION:**

## COMMUNITY PROFILE DIAGRAM

Notes:

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE:	POLYGON:	start finish
	SURVEY(S): RM6 DCL	DATE: Jan 16	
	UTMZ:	UTMIN:	

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POLYGON DESCRIPTION		TOPOGRAPHIC FEATURE			HISTORY	PLANT FORM	COMMUNITY
SYSTEM	SUBSTRATE						
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G RIVERINE	G NATURAL	G PLANKTON	G LAKE	
G WETLAND	G MINERAL SOIL	G BOTTOMLAND	G TERRACE	G CULTURAL	G SUBMERGED	G POND	
G AQUATIC	G PARENT MIN.	G VALLEY SLOPE	G TABLELAND		G FLOATING-LVD.	G RIVER	
	G ACIDIC BEDRK.	G ROLL UPLAND	G CLIFF		G GRAMINOID	G MARSH	
	G BASIC BEDRK.	G TALUS	G CREVICE / CAVE	COVER	G LICHEN	G SWAMP	
	G CARB. BEDRK.	G ALVAR	G ROCKLAND		G BRYOPHYTE	G BOG	
SITE		G BEACH / BAR	G SAND DUNE		G DECIDUOUS	G BARREN	
		G BLUFF			G MIXED	G MEADOW	
G OPEN WATER				G OPEN	G SAVANNAH	G SAVANNAH	
G SHALLOW WATER				G SHRUB	G WOODLAND	G WOODLAND	
G FRESHWATER DEP.				G TREED	G FOREST	G FOREST	
G BEDROCK						G PLANTATION	

**STAND DESCRIPTION:**

STAND DESCRIPTION:			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>= MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)	
LAYER	HT	CVR		
1	CANOPY	3	Red Cedar >> White Ash = Oak Apple	
2	SUB-CANOPY	4	P. Ash > Red Cedar	
3	UNDERSTOREY	5	Juniper >> Golden rod = Grasses & sp.	
4	GRD. LAYER	6	Clover > Carex & Arctost.	

HT CODES:

**STAND COMPOSITION:**

STAND COMPOSITION: *Red Cedar, White Fir, Ash, Oak, Maple*

SIZE CLASS ANALYSIS:				
	A	< 10	10 - 24	> 25
STANDING SNAGS:	N	< 10	N	N
DEADFALL / LOGS:	N	< 10	N	N

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM	AGE	PIONEER	YOUNG	MID-AGE	MATURE

### SOIL ANALYSIS:

SOIL ANALYSIS:			
TEXTURE:	CL	DEPTH TO MOTTLES / GLEY	g = 99.5 G = 99.9
MOISTURE:	15.0	DEPTH OF ORGANICS:	2.0 (cm)
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK:	2.5 (cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Dry Redcedar Conifers Thicket type	THCM1-1
INCLUSION		
COMPLEX		

Notes:













NAP493

Notes:  
Enter map notes



### Legend

- Assessment Parcel
- Wetland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Physically Significant Wetland Evaluated
- Non-Physically Significant Wetland Evaluated
- Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science AHSI
- Provincially Significant Earth Science AHSI
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban Rural Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Open Area
- Natural Heritage Area
- Countryside Area
- Rural Settlement
- Regional Estates
- Recreational Community
- Settlement Area



Projection: Web Mercator

0.3 km

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ELC

COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Levelist NAP 4143

POLYGON: 4

SURVEYOR(S): RPB DLC

DATE: June 16

TIME: start 4:00 finish

UTMZ:

UTM:

STAND CHARACTERISTICS

SURVEYOR(S):

TREE TALLY BY SPECIES:

POLYGON DESCRIPTION		PRISM FACTOR	
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY
<div><div>TERRESTRIAL</div><div>WETLAND</div><div>AQUATIC</div></div>	<div><div>ORGANIC</div><div>MINERAL SOIL</div><div>PARENT MIN.</div><div>ACIDIC BEDRK.</div><div>BASIC BEDRK.</div><div>CARB. BEDRK.</div></div>	<div><div>LACUSTRINE</div><div>RIVERINE</div><div>BOTTOMLAND</div><div>TERRACE</div><div>VALLEY SLOPE</div><div>TABLELAND</div><div>ROLL UPLAND</div><div>CLIFF</div><div>TALLUS</div><div>GREY/ICE / CAVE</div><div>ALVAR</div><div>ROCKLAND</div><div>BEACH / BAR</div><div>SAND DUNE</div><div>BLUFF</div></div>	<div><div>NATURAL</div><div>CULTURAL</div></div>
SITE	COVER		COMMUNITY
<div><div>OPEN WATER</div><div>SHALLOW WATER</div><div>SURFICIAL DEP.</div><div>BEDROCK</div></div>	<div><div>OPEN</div><div>SHRUB</div><div>TREED</div></div>		<div><div>LAKE</div><div>POND</div><div>RIVER</div><div>STREAM</div><div>MARSH</div><div>SWAMP</div><div>FEN</div><div>BOG</div><div>SAGREIN</div><div>MEADOW</div><div>THICKET</div><div>SAVANNAH</div><div>WOODLAND</div><div>FOREST</div><div>PLANTATION</div></div>
STAND DESCRIPTION:		SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	
LAYER	HT	CVR	(-> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1	open	
2 SUB-CANOPY	3	Redcedar >> Parakey Ash	
3 UNDERSTOREY	45	Junipers communis	
4 GRD. LAYER	67	Grasses > Hawkweed > Clavers > Cat's foot	

HT CODES: 1 = >25 m 2 = 10-4HT:25 m 3 = 2-4HT:10 m 4 = 1-4HT:2 m 5 = 0.5-4HT:1 m 6 = 0.2-4HT:0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 50% 4= CVR > 50%

STAND COMPOSITION:

Redcedar

BA:

SIZE CLASS ANALYSIS:

	< 10	10 - 24	25 - 50	> 50
--	------	---------	---------	------

STANDING SNAGS:

	< 10	10 - 24	25 - 50	> 50
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DEADFALL / LOGS:

	< 10	10 - 24	25 - 50	> 50
--	------	---------	---------	------

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
-------------	---------	-------	---------	--------	------------

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES / GLEY g = G=

MOISTURE: DEPTH OF ORGANICS: (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION:

ELC CODE

COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	
INCLUSION	
COMPLEX	

Notes: "Cultural Alvar" heavily grazed

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:













ELC

SOILS ONTARIO

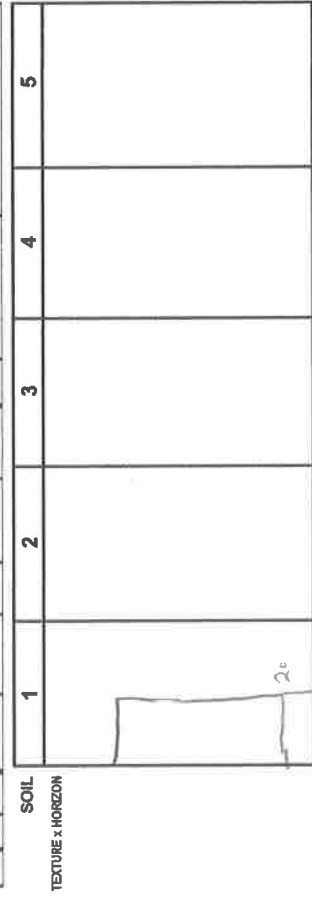
SITE: *Wapiti NAD 493*

POLYGON: *2*

DATE: *June 11*

SURVEYOR(S): *DVG DLG*

Slope					UTM				
P/A	PP	Dr	Position	Aspect	%	Type	Class	Z	NORTHING
1	45	✓	6	✓	✓	5	1	10344948	4916995
2									
3									
4									
5									



A	TEXTURE	<i>SC</i>
	COURSE FRAGMENTS	<i>55%</i>
B	TEXTURE	<i>✓</i>
	COURSE FRAGMENTS	<i>✓</i>
C	TEXTURE	<i>✓</i>
	COURSE FRAGMENTS	<i>✓</i>
	EFFECTIVE TEXTURE	<i>SC</i>
	SURFACE STONINESS	<i>0</i>
	SURFACE ROCKINESS	<i>0</i>

DEPTH TO / OF

MOTTLES	<i>999</i>
GLEY	<i>999</i>
BEDROCK	<i>20</i>
WATER TABLE	<i>199</i>
CARBONATES	<i>999</i>
DEPTH OF ORGANICS	<i>3</i>
PORE SIZE DISC #1	<i>1</i>
PORE SIZE DISC #2	<i>1</i>
MOISTURE REGIME	<i>Fresh</i>

SOIL SURVEY MAP	
LEGEND CLASS	

ELC

PLANT SPECIES LIST

SITE:

POLYGON:

DATE:

SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL	SPECIES CODE	LAYER				COL
	1	2	3	4			1	2	3	4	
<i>Yarrow</i>				<i>0</i>							
<i>Tall buttercup</i>				<i>0</i>							
<i>white clover</i>				<i>0</i>							
<i>red clover</i>				<i>0</i>							
<i>Dracopis v. v.</i>				<i>0</i>							
<i>Blue v. v.</i>				<i>0</i>							
<i>Sp. v. v.</i>				<i>0</i>							
<i>White Ash</i>				<i>0</i>							
<i>Oxeye Daisy</i>				<i>0</i>							
<i>Juncus b. b.</i>				<i>0</i>							
<i>Juncus ten</i>				<i>0</i>							
<i>Solidago</i>				<i>0</i>							
<i>Burns</i>				<i>0</i>							
<i>Carex sp.</i>				<i>0</i>							
<i>Mullein</i>				<i>0</i>							
<i>Grass</i>				<i>0</i>							
<i>Potentilla</i>				<i>0</i>							
<i>Rubus</i>				<i>0</i>							
<i>Fern v. v.</i>				<i>0</i>							
<i>Lichen</i>				<i>0</i>							
<i>Medicago</i>				<i>0</i>							

*Slender Elm*  
*White pine*  
*White cedar*  
*Red cedar*  
*Juniperus com*

These surround the open area in patches

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>LAVALIST NAD 413</u>	POLYGON: <u>3</u>
	SURVEYOR(S): <u>RMK</u>	DATE: <u>June 11</u> TIME: <u>3:20</u>
	UTMZ: <u>NLC</u>	UTMN: <u></u>
	UTMZ: <u></u>	UTMN: <u></u>

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	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 MIN. <input type="checkbox"/> ACIDIC BEDR. <input type="checkbox"/> BASIC BEDR. <input type="checkbox"/> CARB. BEDR.	<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"/> TALLUS <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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREE	<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 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
SITE	<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEEP <input type="checkbox"/> BEDROCK				

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	3	Red cedar >> White cedar > White Birch
2 SUB-CANOPY	4	2	Red cedar > Red cedar > Birch
3 UNDERSTOREY	5	2	Red cedar > Red cedar > Birch
4 GRD. LAYER	6-7	4	humblebee grass sp. > catclaw

HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-10 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT < 0.2 m  
CVR CODES: 0 = NONE 1 = 0% < CVR ≤ 10% 2 = 10 < CVR ≤ 25% 3 = 25 < CVR ≤ 50% 4 = 50 < CVR ≤ 60% 5 = 60 < CVR ≤ 75% 6 = 75 < CVR ≤ 90% 7 = 90 < CVR ≤ 100%

STAND COMPOSITION: Red cedar BA: 2

SIZE CLASS ANALYSIS:	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
------------	---------	-------	---------	--------	------------

SOIL ANALYSIS:

TEXTURE: <u>dry</u>	DEPTH TO MOTTLES / GLEY: <u>g = 111</u>	G = <u>111</u>
MOISTURE: <u>dry</u>	DEPTH OF ORGANICS: <u>1 cm</u>	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: <u>13 cm</u>	(cm)

COMMUNITY CLASSIFICATION: Red cedar Alvar Woodland ELC CODE: RBTA1-4

COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	
INCLUSION	
COMPLEX	

Notes:

Grazed  
Log piles (unless shelter from this polygon is adjacent hardwood forest)

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
SURVEYOR(S):	

TREE TALLY BY SPECIES:

PRISM FACTOR		2							
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG		
Red cedar	1:5	1:3	1:4						
TOTAL	5	3	4						
BASAL AREA (BA)	10	6	8						
DEAD							100		

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:







## Additional Properties

### Notes:

Enter map notes



### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Escarpment
- Wetland
- Physically Significant Wetland
- Non-Physically Significant Wetland
- Unassessed Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)
- Provincially Significant Life Science ANSI
- Provincially Significant Earth Science ANSI
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlet
- Urban River Valley
- Specialty Crop Area
- Magnum Escarpment Plan (NEP)
- Boundary
- Plans and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Major Resource Estimation Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Palgrave Estates
- Residential Community
- Settlement Area

0.7 km



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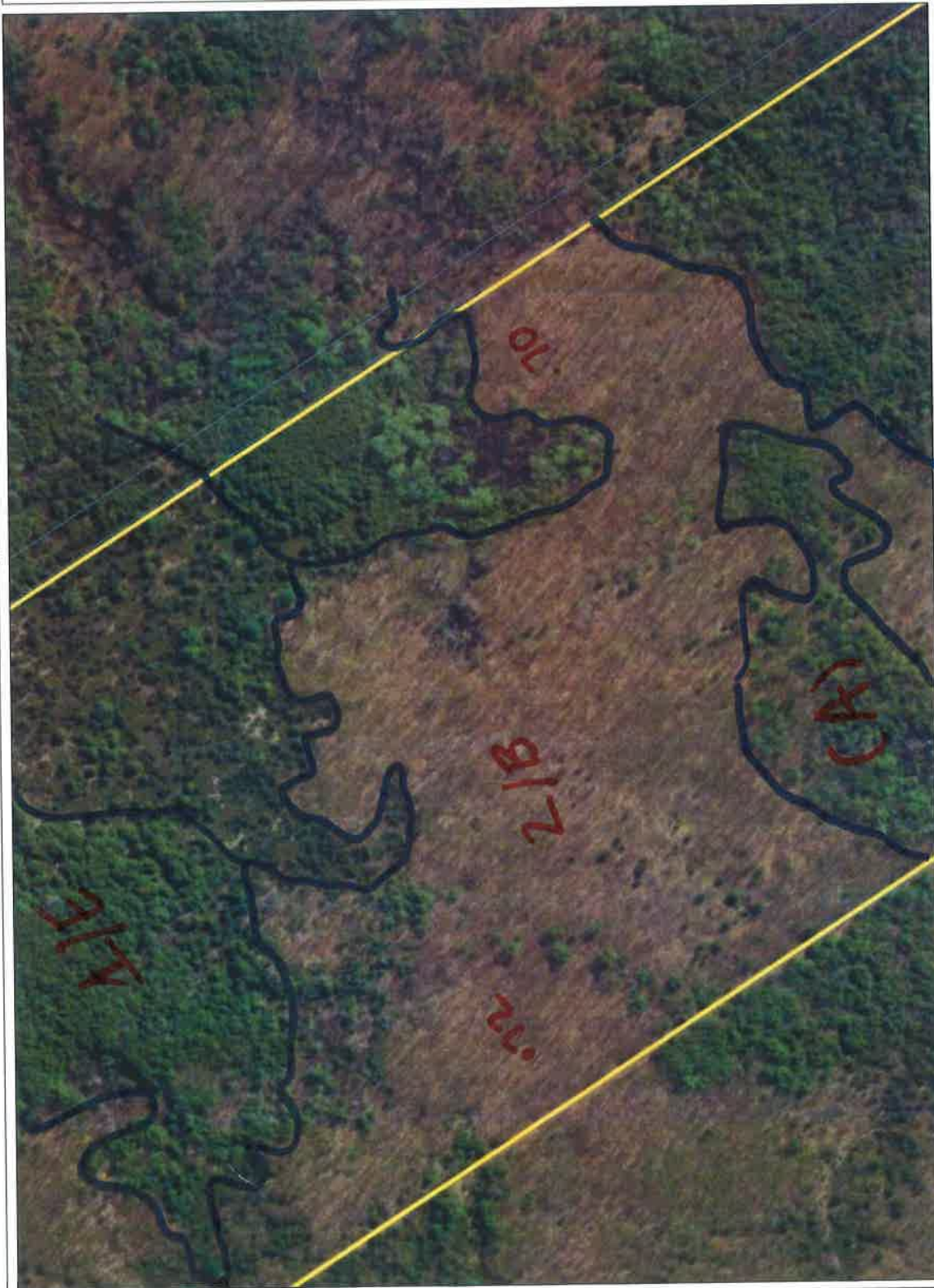


# Ministry of Natural Resources and Forestry

Make-a-Map: Natural Heritage Areas

NAP492\_middle3

Notes:  
Enter map notes



## Legend

- Assessment Pattern
- Wetland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecological
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wetland Evaluated
- Unclassified Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science ANHSI
- Provincially Significant Earth Science ANHSI
- Greenbelt Plan
- Boundary
- River Valley Corridor
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Homeless
- Urban River Valley
- Socially Gap Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mine and Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Highway Corridor
- Settlement Area

0 0.2 km



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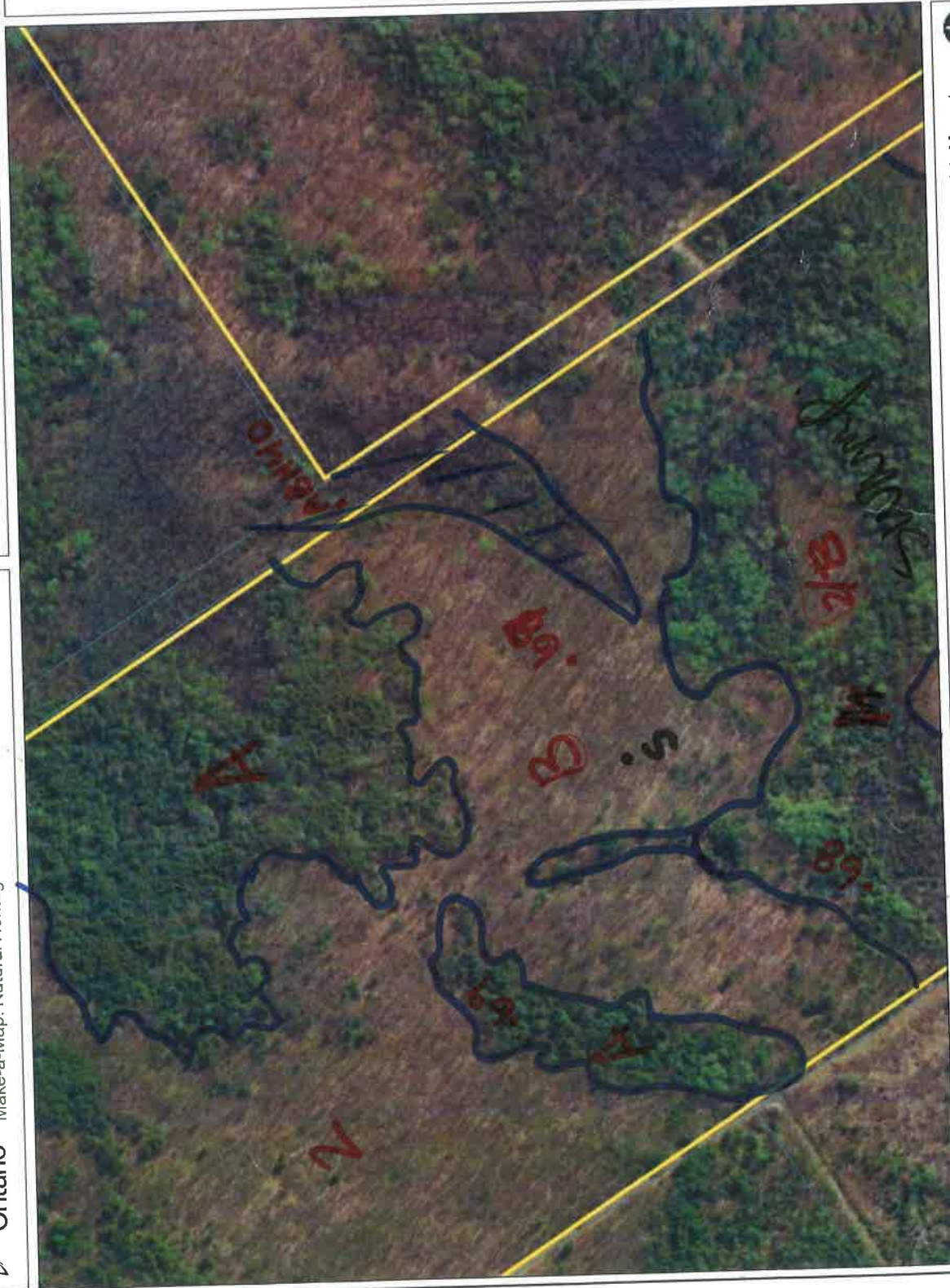
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**NAP492\_middle2**

**Notes:**

Enter map notes



0.2 km

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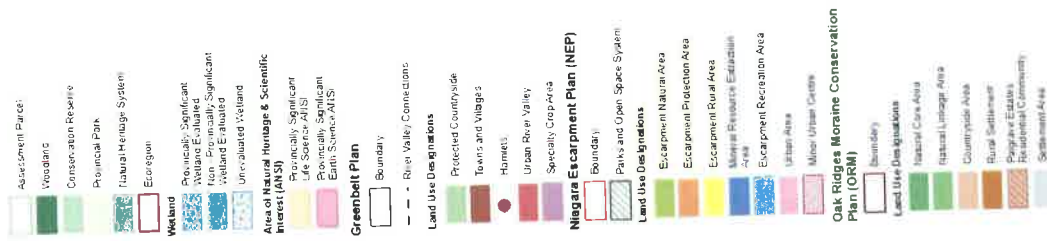
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Survey.

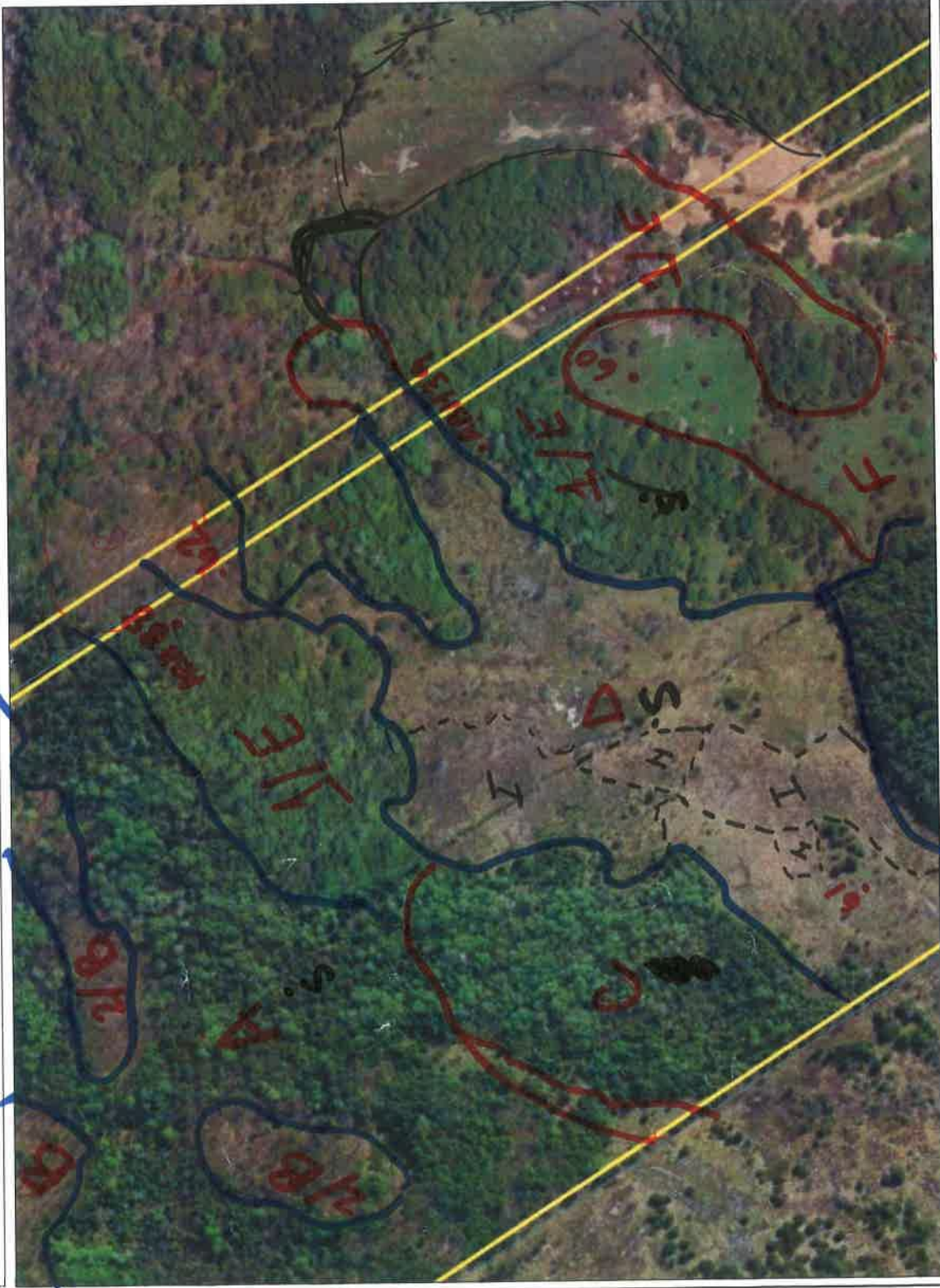
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### Legend







### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecological
- Wetland
- Provincially Significant Wetland
- Wetland of International Importance
- Wetland of Provincial Importance
- Wetland of Local Importance
- Wetland of Unassessed Importance
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Sciences Area (PSLSA)
- Provincially Significant Earth Sciences Area (ESA)
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Prescribed Country-side
- Towns and Villages
- Harbours
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Image Area
- Countryside Area
- Rural Settlement
- Provincial Estates
- Residential Community
- Saltmarsh Area

0 0.2 km



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**NAP492\_south**

**Notes:**  
Enter map notes



0.2 km

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## Legend

- Assessment Parcel  
Woodland  
Conservation Reserve  
Provincial Park  
Natural Heritage System  
Ecoregion

Westland

- Provincially Significant Wetland Evaluated  
Non-Provincially Significant Wetland Evaluated  
Unvaluated Wetland

1000

- Area of Natural Heritage & Science Interest (ANSI)

Greenbelt Plan

- Boundary

and Use Definitions

- Land Use Designations
- Protected Countrywide
- Towns and Villages

Harmful

- Urban River Valley  
Specialty Crop Areas

Niagara Escarpment Plan (NEP)

- Boundary  
 Pairs and Open Spaces

Land Use Designations

- Escarpment Natural Area  
Escarpment Protection

Escarpment Rural Area

- 

Urban Area

- Minor Urban Centre  
Oak Ridges Moraine Con  
Plan (OPM)

Page 10 of 10

- Boundary
- Land Use Designations
- Natural Core Area

Natural Language Area

- Countryside Area  
Rural Settlement

Palgrave Macmillan

- Residential Community  
Settlement Area























ELC

SITE: POLYGON: DATE: SURVEYOR(S):

STAND CHARACTERISTICS

DATE: SURVEYOR(S):

TREE TALLY BY SPECIES:

PRISM FACTOR		TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
SPECIES								
Basswood								
Bittersweet Hick								
Sugar Maple								
Black Oak								
Red Oak								
TOTAL		10	6	7			18	100
BASAL AREA (BA)		22	12	14				
DEAD		1						

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

Need Soil Moisture (Dry? Fresh? Moist?)

ELC

SITE: POLYGON: DATE: SURVEYOR(S):

COMMUNITY DESCRIPTION & CLASSIFICATION

DATE: SURVEYOR(S):

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL-UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALLS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G 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 CANOPY	2	4	Sugar Maple >>> Red Oak
2 SUB-CANOPY	3	3	Island > Sugar Maple > Bittersweet Hick
3 UNDERSTOREY	45	2	Am Elm > Bittersweet Hick
4 GRD. LAYER	67	1	Grass ssp > Am. Elm > Vib. cuneata

HT CODES: 1 = >25 m 2 = 10-24 m 3 = 2-9 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT < 0.2 m  
CVR CODES 0 = NONE 1 = 0% < CVR ≤ 10% 2 = 10 < CVR ≤ 25% 3 = 25 < CVR ≤ 40% 4 = CVR > 40%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:				
DEADFALL / LOGS:				

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
------------	---------	-------	---------	--------	------------

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	ELC CODE
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	Dry - Fresh Sugar Maple - Hardwood Deciduous Forest
INCLUSION	Dipter
COMPLEX	

Notes:

F05-4







ELC

SOILS ONTARIO

SITE: Longlist NAD 492

POLYGON: B

DATE: June 24

SURVEYOR(S): DCC RWTG

Slope

UTM

P/A	PP	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1										
2										
3										
4										
5										

SOIL

TEXTURE x HORIZON

1	2	3	4	5
<u>Very fine sand</u>				

A	TEXTURE				
	COURSE FRAGMENTS				
B	TEXTURE				
	COURSE FRAGMENTS				
C	TEXTURE				
	COURSE FRAGMENTS				
	EFFECTIVE TEXTURE				
	SURFACE STONINESS				
	SURFACE ROCKINESS				
	DEPTH TO / OF				

	MOTTLES				
	GLEYS				
	BEDROCK				
	WATER TABLE				
	CARBONATES				
	DEPTH OF ORGANICS				
	PORE SIZE DISC #1				
	PORE SIZE DISC #2				
	MOISTURE REGIME				

	SOIL SURVEY MAP				
	LEGEND CLASS				

ELC

PLANT SPECIES LIST

SITE:

POLYGON:

DATE:

SURVEYOR(S):

1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL	SPECIES CODE	LAYER				COL
	1	2	3	4			1	2	3	4	
<u>Sugar maple</u>	<u>A</u>	<u>O</u>	<u>O</u>	<u>A</u>		<u>Mistle - No. 2</u>					
<u>Red Oak</u>	<u>O</u>	<u>R</u>				<u>Hicoria</u>					
<u>White Ash</u>	<u>O</u>	<u>O</u>				<u>Black Ash</u>					
<u>Black Ash</u>	<u>R</u>	<u>R</u>				<u>White Fr. sp.</u>					
						<u>Solidago calce</u>					
						<u>Willow sp.</u>					
						<u>Aspen sp.</u>					
						<u>Carex sp.</u>					
						<u>Vicia coarctata</u>					
						<u>Cornus virgin</u>					
						<u>Pennellia vicia</u>					
						<u>Potamogeton</u>					
						<u>Asplenium platyneuron</u>					
						<u>Yellow Thistle</u>					
						<u>Carex sp.</u>					
						<u>Vicia</u>					
						<u>Tall Buttercup</u>					
						<u>Pennellia vicia</u>					
						<u>Red Clover</u>					
						<u>Goldenrod (Hill)</u>					
						<u>Black Ash</u>	<u>R</u>	<u>R</u>			
						<u>Pinkish Ash</u>			<u>O</u>		
						<u>Blackberry</u>			<u>O</u>		
						<u>Juniperus commun</u>			<u>O</u>		
						<u>White clover</u>					
						<u>White Spirea</u>			<u>R</u>		
						<u>Dawson's</u>				<u>O</u>	
						<u>Red Vetch</u>				<u>O</u>	

Open Inclusion  
Grey Sp. Page ..... of .....  
Juniperus bnf  
T. montana grass

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>LAKEVIEW NATURE</u>	POLYGON: <u>3</u>
	SURVEYOR(S): <u>DLC</u>	TIME: start <u>10:30</u> finish <u>12:30</u>
	UTMZ: <u>UTM</u>	UTMN: <u>UTM</u>

POLYGON DESCRIPTION				
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G CLIFF G TALLUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL  <b>COVER</b> G OPEN G SHRUB G TREED	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED
SITE				
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK				

STAND DESCRIPTION:			
LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	2	Red cedar >> Starbush
2 SUB-CANOPY	4	4	Juniperus communis > Red cedar
3 UNDERSTOREY	56	3	Lichen > moss
4 GRD. LAYER	7		
HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT<0.2 m			
CVR CODES 0 = NONE 1 = 0% < CVR ≤ 10% 2 = 10 < CVR ≤ 25% 3 = 25 < CVR ≤ 50% 4 = CVR > 50%			

STAND COMPOSITION:					
BA:					
SIZE CLASS ANALYSIS:	A	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	R	< 10	N	25 - 50	N
DEADFALL / LOGS:	R	< 10	R	25 - 50	N
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:		
TEXTURE:	DEPTH TO MOTTLES / GLEY	g =
MOISTURE:	DEPTH OF ORGANICS:	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)

COMMUNITY CLASSIFICATION:	
COMMUNITY CLASS:	ELC CODE
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	Common Juniper Shrub Plant Type
INCLUSION	RB SA 1-1
COMPLEX	

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
SURVEYOR(S):	

TREE TALLY BY SPECIES:

PRISM FACTOR	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
SPECIES	Red cedar	11				3	100
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:









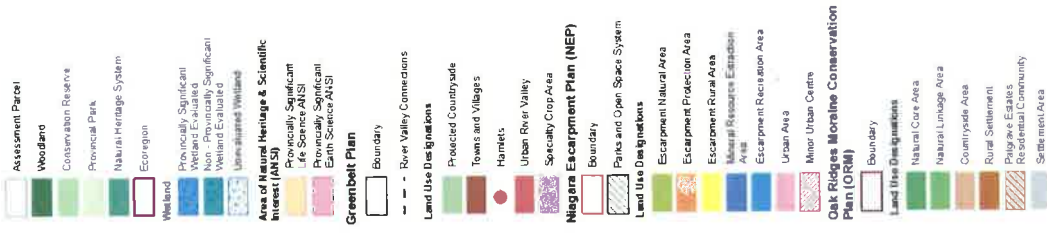


NAP022

Notes:  
Enter map notes



## Legend



0 0.2 km

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







































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## Legend

-  Assessment Parcel
-  Woodland
-  Conservation Reserve
-  Provincial Park
-  Natural Heritage System
-  Ecoregion
-  Wetland
-  Provincially Significant Wetland Evaluated
-  Non-Provincially Significant Wetland Evaluated
-  Unregulated Wetland
-  Area of Natural Heritage & Scientific Interest (Provincially Significant)
-  Provincially Significant Life Science AHSI
-  Provincially Significant Earth Science AHSI
-  Greenbelt Plan
-  Boundary
-  River Valley Connections
-  Land Use Designations
-  Protected Countryside
-  Towns and Villages
-  Hamlets
-  Urban River Valley
-  Specialty Crop Area
-  Niagara Escarpment Plan (NEP)
-  Boundary
-  Parks and Open Space System
-  Land Use Designations
-  Escarpment Natural Area
-  Escarpment Protection Area
-  Escarpment Rural Area
-  Mineral Resource Extraction Area
-  Escarpment Recreation Area
-  Urban Area
-  Minor Urban Centre
-  Oak Ridges Moraine Conservation Plan (ORM)
-  Boundary
-  Land Use Designations
-  Natural Core Area
-  Natural Linkage Area
-  Countyside Area
-  Rural Settlement
-  Payzone Estates
-  Potential Community Settlement Area







0 0.2 km

Projection: Web Mercator



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Legend

- Acquisition Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
  - Provincially Significant Wetland
  - Provincially Significant Wetland - Provincially Significant
  - Provincially Significant Wetland - Provincially Significant
  - Provincially Significant Wetland - Provincially Significant
  - Provincially Significant Wetland - Provincially Significant
- Area of Natural Heritage & Scientific Interest (ANHSI)
  - Provincially Significant Life Science ATIS
  - Provincially Significant Earth Science ATIS
- Greenbelt Plan
  - Boundary
  - River Valley Corridor
  - Land Use Designations
    - Protected Countryside
    - Trains and Valleys
    - Heritage
    - Urban River Valley
    - Specialty Core Area
- Niagara Escarpment Plan (NEP)
  - Boundary
  - Parks and Open Space System
  - Land Use Designations
    - Escarpment Natural Area
    - Escarpment Protection Area
    - Escarpment Rural Area
    - Mineral Resource Extension Area
    - Escarpment Recreation Area
    - Urban Area
    - Major Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
  - Boundary
  - Land Use Designations
    - Natural Core Area
    - Natural Heritage Area
    - Countryside Area
    - Rural Settlement
    - Provincial Park
    - Recreation Area
    - Settlement Area







Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

## Make-a-Map: Natural Heritage Areas

**PIN450660079 - NAP012**

**Notes:**  
Enter map notes



0.3 km

Projection: Web Mercator

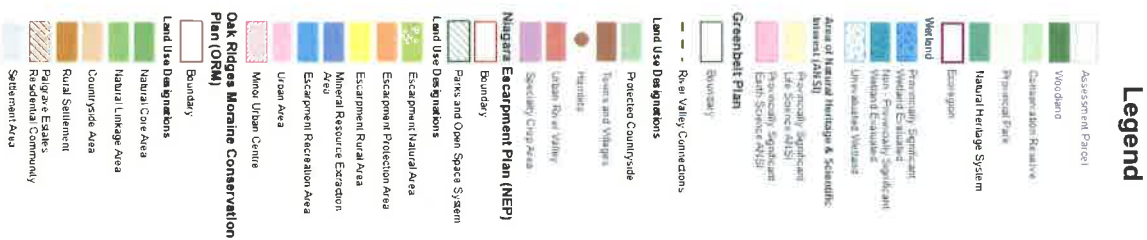


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<b>ELC</b> PLANT SPECIES LIST	<b>SITE:</b>
	<b>POLYGON:</b>
	<b>DATE:</b>
	<b>SURVEYOR(S):</b>

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

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Robinulus					
Oryzopsis					

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Vorbesia					
Relbunium					

Arched grass	0	Stellion green	0
Yucca	0	Eriogonum	0
Madroño st.	0	Arctostaphylos	R
White clover	0	Eriogonum	0
Red clover	0	comp	
Barro	0		
Juniper	0		
Solidago	0		

[illegible][illegible]





[illegible]

MOTTLES	999				
GLEYS	999				
BEDROCK	8cm				
WATER TABLE	999				
CARBONATES	8cm				
DEPTH OF ORGANICS	2				
PORE SIZE DISC #1	2				
PORE SIZE DISC #2					
MOISTURE REGIME	Dry S				
SOIL SURVEY MAP					
LEGEND CLASS					

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

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Rosemary				A	
Moss				A	

SPECIES CODE	LAYER				COL.
	1	2	3	4	
E. buckhorn			R		
Cornus virginica		O			

[illegible]

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE	DATE	POLYGON
	SURVEYOR(S)	TIME	start
	UTMZ	UTME	UTMN

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDR. G BASIC BEDR. G CARB. BEDR.	G LACUSTRINE G RIVERINE G FLOTTING-LND. G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G CLIFF G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G GRASSLAND G FORE G LOCHEN G BRYOPHYTE G DEBIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BAREND G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			COVER		

STAND DESCRIPTION:			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)		
LAYER	HT	CVR	(> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)		
1 CANOPY	3	4	Red Cedar > White Cedar		
2 SUB-CANOPY	4	3	Pine > Red Cedar > White Cedar		
3 UNDERSTOREY	5	3	Pine > Red Cedar > White Cedar		
4 GRD. LAYER	6-7	4	Pine > Red Cedar > White Cedar		
HT CODES: 1 = 25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-10 m 5 = 0.5-1 m 6 = 0.2-1 m 7 = 10-25 m					
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%					
STAND COMPOSITION:			BA: 2		

SIZE CLASS ANALYSIS:			1A < 10 10-24 25-50 N > 50					
STANDING SNAGS:	N	< 10	N	10-24	N	25-50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10-24	N	25-50	N	> 50
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT								
COMM. AGE :	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH			

SOIL ANALYSIS:				
TEXTURE:	LS	DEPTH TO MOTTLES / GLEY	g = 999	G = 999
MOISTURE:	Dry	DEPTH OF ORGANICS:	1.5	(cm)
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK:	6	(cm)
COMMUNITY CLASSIFICATION:				
ELC CODE				

COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	Red Cedar / White Cedar
INCLUSION	Woodland type
COMPLEX	RBTA-1-7

ELC STAND CHARACTERISTICS	SITE:	POLYGON:
	DATE:	SURVEYOR(S):

TREE TALLY BY SPECIES:						
SPECIES	PRISM FACTOR					REL. AVG
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	
Red Cedar	2	1				10
White Cedar	2	1				3
TOTAL	6	7				13
BASAL AREA (BA)	12	14				100
DEAD	0	0				

STAND COMPOSITION:	
COMMUNITY PROFILE DIAGRAM	
Notes:	

<b>ELC</b> PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

LAYERS:					1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER						
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT											
SPECIES CODE	LAYER				COL.	SPECIES CODE	LAYER				COL.
	1	2	3	4			1	2	3	4	
<i>Echinops</i>				R		<i>Cardinalis</i>				R	
<i>Ostrya</i>				O		<i>Phil. marianae</i>				O	

[illegible]





<b>ELC</b> PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEY(OR)S:

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT					
SPECIES CODE	LAYER				COL
	1	2	3	4	
<i>Silene spaldingii</i>			A		
<i>Dianthus car.</i>			O		

SPECIES CODE	LAYER				COL
	1	2	3	4	
<i>Phil. parviflora</i>				O	
<i>Faba pedunculata</i>				O	

Hecium		O				Early butterfly	R
Asclepias syri.		O				parsenot	A
Glyc. Dory		A				(Common) loebare	O
Lichus		O	A			Silphium	O
Muscis		O	A			oreo goldenrod	O
Cudum nre		O				Wally's buttercup	R
Fragaria virgin		O				wild rose	O
Silphium laciniat		O				Silphium laciniat	O

[illegible]

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Level 1st</u>	DATE: <u>NAP 11/12/13</u>	POLYGON: <u>Forest</u>
	SURVEYOR(S): <u>Kyle</u>	DATE: <u>June 14</u>	TIME: <u>start</u> <u>finish</u>
UTMZ:	UTME:	UTMN:	

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	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 MIN. <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <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"/> NATURAL <input type="checkbox"/> CULTURAL	<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 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
SITE	<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SUPERFICIAL DEP. <input type="checkbox"/> BEDROCK	<input type="checkbox"/> CARE. BEDRK	<input type="checkbox"/> 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 CANOPY	12	3	Cottonwood = Basswood = Spruce
2 SUB-CANOPY	2	4	White cedar > Ironwood = Amer. Elm & Sugar Maple
3 UNDERSTOREY	15	3	Pinkish ash > White Ash > Sweetgum > Black cherry
4 GRID LAYER	6	4	Aspen > Wild rose > Red maple > Black cherry

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

## STAND COMPOSITION:

White cedar > Paper Birch is dominant in this BA: 2

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	N	0	0	0
DEADFALL / LOGS:	0	0	0	0

ABUNDANCE CODES:	N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

## SOIL ANALYSIS:

TEXTURE:	Silt	DEPTH TO MOTTLES / GLEY	g = 111	G = 111
MOISTURE:	dry	DEPTH OF ORGANICS:	2	(cm)
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK:	10	(cm)

## COMMUNITY CLASSIFICATION:

ELC CODE

COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	Dry - Fresh White Cedar / Hardwood mixed forest
INCLUSION	D-F Hardwood Dec. forest
COMPLEX	PDOM4-4

Notes:

ELC STAND CHARACTERISTICS	SITE:	POLYGON:
	DATE:	SURVEYOR(S):

## TREE TALLY BY SPECIES:

SPECIES	PRISM FACTOR					TOTAL	REL. AVG
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5		
White cedar	1					1	5
Sweetgum	11	3	1			15	20
Sugar maple	1	1				2	5
Other sp.	1					1	5
White cedar	11	11	11			33	40
Basswood	11	11	11			33	10
Paper Birch	11	11	11			33	15
Cottonwood	1	1				2	5
TOTAL	6	14				20	100
BASAL AREA (BA)	12	28					
DEAD							

## STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM
---------------------------

Notes:



Slone

3/10

SITE:
POLYGON:
DATE:
SURVEYOR(S):

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

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

1

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE	SURVEYOR(S)	DATE	POLYGON	TIME
	UTMZ	UTME	UTMN	start	finish

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	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 MIN. <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LV. <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> 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
SITE			COVER		

STAND DESCRIPTION

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	White Ash > Whitecedars
2 SUB-CANOPY	3	3	Sugar Maple > Am. Elm > Black Thorn
3 UNDERSTORY	45	3	Blackburn > Blackb. Ash > Manitoba Maple > V. mus on
4 GRD. LAYER	67	4	Persimmon > 2 Cops. Maples > V. mus on > 4 G. monix sp.

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m  
CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:

	A	< 10	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:		R	< 10	R	10 - 24	N	25 - 50
DEADFALL / LOGS:		R	< 10	R	10 - 24	N	25 - 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	ELC CODE
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	D-4 White Ash-Hardwood Forest 4-2
INCLUSION	
COMPLEX	

Notes:

Dumping Site.

ELC STAND CHARACTERISTICS	SITE:	POLYGON:	DATE:	SURVEYOR(S):

TREE TALLY BY SPECIES:

SPECIES	PRISM FACTOR					TOTAL	REL. AVG.
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5		
Whitecedars	4						
Sugar Maple	1						
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM
---------------------------

Notes:

[illegible]

SOIL		TEXTURE x HORIZON	
1	2	3	4
Soil consistent polygon			

MOTTLES					
GLEY					
BEDROCK					
WATER TABLE					
CARBONATES					
DEPTH OF ORGANICS					
PORE SIZE DISC #1					
PORE SIZE DISC #2					
MOISTURE REGIME					

<b>ELC</b> <b>PLANT</b> <b>SPECIES</b> <b>LIST</b>	<b>SITE:</b>
	<b>POLYGON:</b>
	<b>DATE:</b>
	<b>SURVEYORS:</b>

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Whitechals	0				
White Ash	0				
Sugar Maple	0				

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Pearson Tree				A	
Virginia Creeper				0	
Captis Hills				0	

[illegible]



ELC SITE: Lehigh DATE: NAP 11.2.13 POLYGON: 1. Meadow  
SURVEYOR(S): RH & C TIME: start  
CLASSIFICATION: UTMZ: UTME: UTMN: finish 4:45pm

2

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDRK. <input type="checkbox"/> BASIC BEDRK. <input type="checkbox"/> CASS. BEDRK.	<input type="checkbox"/> LAKESTRINE <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"/> 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"/> NATURAL <input checked="" type="checkbox"/> CULTURAL <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 type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<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 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"/> BASHEN <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

SITE: ☐ OPEN WATER  
☐ SHALLOW WATER  
☒ SURFICIAL DEPT.  
☐ BEDROCK

STAND DESCRIPTION: SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)  
(> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)

LAYER	HT	CVR
1 CANOPY		
2 SUB-CANOPY		
3 UNDERSTOREY		
4 GRD. LAYER		

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

STAND COMPOSITION: BA: BA

SIZE CLASS ANALYSIS:

< 10	10 - 24	25 - 50	> 50
------	---------	---------	------

STANDING SNAGS: < 10 10 - 24 25 - 50 > 50  
DEADFALL / LOGS: < 10 10 - 24 25 - 50 > 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE: ☐ PIONEER ☐ YOUNG ☐ MID-AGE ☐ IMMATURE ☐ OLD GROWTH

SOIL ANALYSIS:

TEXTURE: DEPTH TO MOTTLES / GLEY g = G =  
MOISTURE: DEPTH OF ORGANICS: (cm)  
HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

COMMUNITY CLASSIFICATION: ELC CODE

COMMUNITY CLASS:

COMMUNITY SERIES:

ECOSITE:

VEGETATION TYPE: open positive cultural native OBGMY

INCLUSION

COMPLEX

Notes:

Cultural meadows, grazed, with buckhorn, Elm, Ash hedgerows between  
And field (matted) appears early succession refer to field club community (more edges)  
+ Elms' component

ELC SITE: POLYGON: DATE: SURVEYOR(S):

STAND CHARACTERISTICS

TREE TALLY BY SPECIES:

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

[illegible]

<b>ELC</b>	<b>SITE:</b>
<b>PLANT</b>	<b>POLYGON:</b>
<b>SPECIES</b>	<b>DATE:</b>
<b>LIST</b>	<b>SUPREVISOR(S):</b>

Page ...





## Make-a-Map: Natural Heritage Areas

**Notes:**  
Enter map notes



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	Assessment Parcel
	Woodland
	Conservation Reserve
	Provisional Park
	Natural Heritage System
	Ecoregion
	Wetland
	Nonpointly Significant Wetland
	Wetland of Statewide or Significant Value
	Unincorporated Wetland
	Area of Natural Heritage & Scientific Interest (ANHSI)
	Provisionally Significant Land Science (ALS)
	Provisionally Significant Earth Science (AES)
	Greenbelt Plan
	Boundary
	River Valley Connections
	Land Use Designations
	Protected Community
	Towns and Villages
	Hamlets
	Urban River Valley
	Specifically Designated Area
	Nalagaze Escarpment Plan (NEP)
	Escarpment Natural Area
	Escarpment Protection Area
	Escarpment Rural Area
	Mineral Resource Extraction Area
	Escarpment Recreation Area
	Urban Area
	Major Urban Center
	Oak Ridge Marine Conservation Plan (ORM)
	Boundary
	Land Use Designations
	Island Core Area
	Natural Linkage Area
	Countyside Area
	Rural Settlement
	Paging & Estates
	Recreational Community
	Suburban Area





ELC	SITE: <u>Polkist NAD 81</u>	POLYGON: <u>5</u>
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEY(OR)S: <u>RMC DEC 2007</u>	DATE: <u>2007</u>
	UTMZ: <u></u>	UTME: <u></u>
	UTMN: <u></u>	start finish

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	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 MIN. <input type="checkbox"/> ACIDIC BEDR. <input type="checkbox"/> BASIC BEDR. <input type="checkbox"/> CARB. BEDR.	<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"/> 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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<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 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
SITE	<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER	<input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> SAND <input type="checkbox"/> TREED	

STAND DESCRIPTION:		SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)
LAYER	HT	CVR
1	CANOPY	Am Elm 7 Sugar Maple
2	SUB-CANOPY	Sugar Maple 3 Redbark Elm 2
3	UNDERSTOREY	Redbark Elm 2 Sugar Maple 1
4	GRD. LAYER	Moss 5 Ferns

HT CODES: 1 = >25 m 2 = 10-24 m 3 = 2-9 m 4 = 1-9 m 5 = 0.5-4 m 6 = 0.2-4 m 7 = HT < 0.2 m  
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION: Sugar Maple 50 Am. Elm 50 BA: 2

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	1	10 - 24	25 - 50	> 50
DEADFALL / LOGS:	1	10 - 24	25 - 50	> 50
ABUNDANCE CODES:	N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	<u>Alvar Shrub Redbark Elm</u>	<u>RBSA1</u>
INCLUSION	<u>D-F Sugar Maple-Hardwood</u>	<u>FDDE1-1</u>
COMPLEX		

ELC	SITE: <u></u>
STAND CHARACTERISTICS	POLYGON: <u></u>
	DATE: <u></u>
	SURVEY(OR)S: <u></u>

TREE TALLY BY SPECIES:

PRISM FACTOR	1	2	3	4	5	TOTAL	REL. AVG
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SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
<u>Sugar Maple</u>	1						
<u>Am Elm</u>	1						
TOTAL	2						100
BASAL AREA (BA)	9						
DEAD							

STAND COMPOSITION:

--	--	--	--	--	--	--	--	--	--

COMMUNITY PROFILE DIAGRAM

> deep forest, juniper throughout

> blu RBSA1 & RBSA1-7 on west side of property = inclusion of sugar maple forest FODDE1-1 over shallow soils or bedrock

> inclusion mapped

Notes:

Containers above pavement with many large deep cracks

ELC

SITE: Longlist NAPA1

POLYGON: S

DATE: June 17

SURVEYOR(S): RNC NLC

SOILS ONTARIO

SURVEYOR(S): RNC NLC

SLOPE:

UTM

PI/A	PP	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1										
2										
3										
4										
5										

SOIL

1	2	3	4	5
TEXTURE x HORIZON				
<u>open bedrock</u>				

A	TEXTURE					
	COURSE FRAGMENTS					
B	TEXTURE					
	COURSE FRAGMENTS					
C	TEXTURE					
	COURSE FRAGMENTS					
	EFFECTIVE TEXTURE					
	SURFACE STONINESS					
	SURFACE ROCKINESS					
	DEPTH TO / OF					

	MOTTLES					
	GLEY					
	BEDROCK					
	WATER TABLE					
	CARBONATES					
	DEPTH OF ORGANICS					
	PORE SIZE MSC #1					
	PORE SIZE MSC #2					
	MOISTURE REGIME					
	SOIL SURVEY MAP					
	LEGEND CLASS					

ELC

SITE:

POLYGON:

DATE:

SURVEYOR(S):

PLANT SPECIES LIST

1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

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

SPECIES CODE	LAYER				COL
	1	2	3	4	
Viburnum				0	
Quercus				0	
Rubus				0	
R. sp.				0	
Vitis				A	
Rosa				A	
R. sp.				0	
Grass				A	
Moss				0	
Lichen				0	
Aspen				0	
White Birch				0	
Red Spruce				0	
Black Spruce				0	
Jack Pine				0	
White Pine				0	
Aspen				0	
White Birch				0	
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ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE:	POLYGON:	
	SURVEYOR(S):	DATE:	TIME:
	UTMZ:	UTME:	UTMN:
			start finish

POLYGON DESCRIPTION	SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACISTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G TALLS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-VD. G GRAMINOID G FORE G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICK G SAVANNAH G WOODLAND G FOREST G PLANTATION	
SITE	G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK			COVER		

### STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	3	Redcedar >> Live Oak
2 SUB-CANOPY	3	1	Redcedar > Live Oak > Apple
3 UNDERSTOREY	5	1	Redcedar > Trifolium > Ranunculus
4 GRD. LAYER	07	4	Grasses > Milkweed > Clovers

HT CODES: 1 = < 25 m 2 = 10-41.25 m 3 = 24-41.25 m 4 = 14-41.25 m 5 = 0.5-41.25 m 6 = 0.2-41.25 m 7 = 0.1-41.25 m  
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION: Redcedar BA: 6.

SIZE CLASS ANALYSIS:

SIZE CLASS	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	0	0	0	0
DEADFALL / LOGS:	0	0	0	0

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

### SOIL ANALYSIS:

TEXTURE: MISC DEPTH TO MOTILES / GLEY g = 999 G = 999  
MOISTURE: Dry DEPTH OF ORGANICS: 2cm (cm)  
HOMOGENEITY / VARIABLE DEPTH TO BEDROCK: 2cm (cm)

### COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:		ELC CODE
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Redcedar Live Woodland Type	RBTA1-7
INCLUSION	Dry-lake moss open	RBDA1-1
COMPLEX	Oliver pasture	

Notes: South Actively managed by landowners. Removal of Redcedars etc.

RBTA1-7 changes this to an open olive vegetation type

ELC STAND CHARACTERISTICS	SITE:	POLYGON:
	DATE:	SURVEYOR(S):

### TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Redcedar	11	11	11			33	100
TOTAL	3	4	4				
BASAL AREA (BA)	6	8	8				
DEAD	0	0	0				

### STAND COMPOSITION:

### COMMUNITY PROFILE DIAGRAM

Small inclusions of RBDA1-1 were observed in the north RBTA1-7 polygon  
inclusions too small to map  
RBTA1-7 in south polygon more disturbed & influenced by landowners  
RBTA1-7 in north polygon is naturalized

Notes:



<div> <div>ELC</div> <div>PLANT SPECIES LIST</div> </div>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

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

SPECIES CODE	LAYER				COL.
	1	2	3	4	
<i>Chrysothrix</i>			R		
<i>Leptogium</i>					
<i>Cladonia</i>					

SPECIES CODE	LAYER				COL.
	1	2	3	4	
<i>Leptogium</i>				O	
<i>Cladonia</i>				O	
<i>Chrysothrix</i>					

[illegible][illegible][illegible]

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" 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 MTL <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALLS	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANTIGN <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LND <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECDUOUS <input type="checkbox"/> SEMIPERENNIOUS <input checked="" type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRairie <input type="checkbox"/> THicket <input type="checkbox"/> SAVANNAH <input type="checkbox"/> FOREST <input checked="" type="checkbox"/> PLANTATION
SITE			COVER		
<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> CIRCUMF. DEB <input checked="" type="checkbox"/> BEDROCK		<input type="checkbox"/> PLAINLAND <input checked="" type="checkbox"/> HILLAND <input type="checkbox"/> BEACH BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED		

<b>ELC</b>  <b>STAND</b> <b>CHARACTERISTICS</b>	<b>SITE:</b>
	<b>POLYGON:</b>
	<b>DATE:</b>
	<b>SURVEYOR(S):</b>

**STAND COMPOSITION:**

**COMMUNITY PROFILE DIAGRAM**

**Notes:**

<b>ELC</b> <b>PLANT</b> <b>SPECIES</b> <b>LIST</b>	<b>SITE:</b>
	<b>POLYGON:</b>
	<b>DATE:</b>
	<b>SURVEYOR(S):</b>

LAYERS:											
1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER											
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT											
SPECIES CODE	LAYER				COL.	SPECIES CODE	LAYER				COL.
	1	2	3	4			1	2	3	4	
HERBERT				0							
Vitis Rp				0							

[illegible][illegible][illegible]



ELC	SITE: NRP21	POLYGON: MEGR1
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEYOR(S): DEC + RG	DATE: June 17
	UTMZ:	UTME:
	UTMN:	UTME: start finish

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G BARREN-MIN G ACIDIC BEDRK G BASIC BEDRK G CARB BEDRK	G LAKESTRINE G RIVERINE G BOTTOMLAND G UPLAND G TALLER UPLAND G CLIFF G CREVICE / CAVE G LAVAL G ROCKLAND G BEACH BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G PNEUMATIC G GRAINOID G COBBLE G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G Bogs G BAREEN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE	G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK		COVER		

STAND DESCRIPTION		
LAYER	HT	CVR
1 CANOPY		
2 SUB-CANOPY	3	1
3 UNDERSTOREY	4-5	2
4 GRD. LAYER	6-7	4

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

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:		< 10	10 - 24	25 - 50
DEADFALL / LOGS:		< 10	10 - 24	25 - 50
ABUNDANCE CODES:	N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

SOIL ANALYSIS:		
TEXTURE:	SL	DEPTH TO MOTTLES / GLEY g = 999 G = 999
MOISTURE:	Dry	DEPTH OF ORGANICS: 2cm (cm)
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK: 10cm (cm)
COMMUNITY CLASSIFICATION: ELC CODE		
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Dry forestal carous	MEGR2
INCLUSION		
COMPLEX		

Notes:

ELC	SITE:
STAND	POLYGON:
CHARACTERISTICS	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:						
SPECIES	PRISM FACTOR					REL. AVG.
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	
TOTAL						100
BASAL AREA (BA)						
DEAD						

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

> old field species over shallow soils  
> multiple soil cores taken - all soil  
types consistent & just sample  
recorded.

Notes:

<b>ELC</b> PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

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

SPECIES CODE	LAYER				COL.
	1	2	3	4	
<i>Vicia cracca</i>				0	
<i>Aspidornis str</i>				0	

SPECIES CODE	LAYER				COL.
	1	2	3	4	
<i>Junco sp</i>				10	

[illegible][illegible][illegible]



Ontario

Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

PIN4450660126 - NAP023\_2

Notes:  
Enter map notes



0 0.2 km

Projection: Web Mercator



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## Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Private Land
- Natural Heritage System
- Ecoregion
- Wetland
  - Provincially Significant
  - Non-Provincially Significant
  - Wetland Evaluated
  - Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
  - Provincially Significant
  - Life Source (LSI)
  - Provincially Significant
  - Earth Science (ESI)
- Greenbelt Plan
  - Boundary
  - River Valley Corridors
- Land Use Designations
  - Protected Countryside
  - Towns and Villages
  - Hermitage
  - Urban River Valley
  - Specialty Corporate
- Niagara Escarpment Plan (NEP)
  - Boundary
  - Parks and Open Space System
- Land Use Designations
  - Escapment Natural Area
  - Escapment Protection Area
  - Escapment Rural Area
  - Mineral Resource Extraction Area
  - Escapment Recreation Area
  - Urban Area
  - Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
  - Boundary
- Land Use Designations
  - Natural Core Area
  - Natural Heritage Area
  - Countryside Area
  - Rural Settlement
  - Rural Settlement Community
  - Settlement Area







0 0.2 km

Projection: Web Mercator
















































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## Legend

-  Assessment Parcel
-  Woodland
-  Conservation Reserve
-  Provincial Park
-  Natural Heritage System
-  Ecoregion
-  Wetland
  -  Provincially Significant Wetland Evaluated
  -  Non-Provincially Significant Wetland Evaluated
  -  Wetland Evaluated
  -  Unassessed Wetland
-  Area of Natural Heritage & Scientific Interest (ANHSI)
  -  Provincially Significant Life Science ANHSI
  -  Provincially Significant Earth Science ANHSI
-  Greenbelt Plan
  -  Boundary
  -  River Valley Connections
-  Land Use Designations
  -  Protected Countryside
  -  Towns and Villages
  -  Hamlets
  -  Urban River Valley
  -  Specialty Crop Area
-  Niagara Escarpment Plan (NEP)
  -  Boundary
  -  Parks and Open Space System
-  Land Use Designations
  -  Escarpment Natural Area
  -  Escarpment Protection Area
  -  Escarpment Rural Area
  -  Mineral Resource Extraction Area
  -  Escarpment Recreation Area
  -  Urban Area
  -  Minor Urban Centre
-  Oak Ridges Moraine Conservation Plan (ORM)
  -  Boundary
-  Land Use Designations
  -  Natural Core Area
  -  Natural Linkage Area
  -  Countywide Area
  -  Rural Settlement
  -  Rural Area
  -  Palimpsest Areas
  -  Rural Settlement Community
  -  Settlement Area



SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MTL <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALLS <input type="checkbox"/> CRENSSE CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND	<input type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING LND <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> MARSH <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> LICHEN <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> BGC <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"/> BGC <input type="checkbox"/> BARREN <input type="checkbox"/> THESGAW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE			COVER		
<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SUPERCIAL DEP. <input type="checkbox"/> BEDROCK		<input type="checkbox"/> BLUFF	<input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED		

SIZE CLASS ANALYSIS:		0	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:									
DEAD/FALL / LOGS:									
ABUNDANCE CODES:		N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT				
COMM. AGE :	<input checked="" type="checkbox"/>	PIONEER	<input type="checkbox"/>	YOUNG	<input type="checkbox"/>	MID-AGE	<input type="checkbox"/>	MATURE	<input type="checkbox"/>
									OLD GROWTH

COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	open alvar rock barrens
INCLUSION	
COMPLEX	

### TREE TALLY BY SPECIES:

[illegible]

STAND COMPOSITION:	

Notes:





ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE:	NAP118/D23		POLYGON:	2
	SURVEYOR(S):	DCC/DCA		DATE:	June 20 2016
	UTM-Z:	UTM-E:	UTM-N:	start	finish

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACESTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING LVD.	G RIVER
	G ACIDIC BEDRK	G TERRACE		G STREAM	G RIVER
	G BASIC BEDRK	G TALL SLOPE		G GRASSLAND	G STREAM
	G CLIFF	G TALL SLOPE		G TOB	G WASH
	G CREEP / CAVE	G TALL SLOPE		G BROWN LATE	G SWAMP
	G OPEN WATER	G TALL SLOPE		G DECIDUOUS	G FSN
	G SHALLOW WATER	G TALL SLOPE		G CONIFEROUS	G BGR
	G SURFICIAL DEP	G TALL SLOPE		G OPEN	G BARREN
	G BEDROCK	G TALL SLOPE		G COVER	G THICKET
		G TALL SLOPE		G OPEN	G SAVANNAH
		G TALL SLOPE		G OPEN	G WOODLAND
		G TALL SLOPE		G OPEN	G FOREST
		G TALL SLOPE		G OPEN	G 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 CANOPY	2	3	Red Cedar > W. Ash > WE Elm
2 SUB-CANOPY	3	1	Buckhorn > P. Ash = Honey Suckle
3 UNDERSTORY	4	2	Juniper > Honey Suckle > Buckhorn = Roseberry
4 GRD. LAYER	4	4	Grass > Oxeye Daisy > B. F. Trefoil > Galium

HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT-0.2 m  
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10% < CVR < 25% 3 = 25% < CVR < 50% 4 = 50% < CVR < 60%  
STAND COMPOSITION: Red Cedar

SIZE CLASS ANALYSIS:	O	M	N	N	N	N	N	N
STANDING SNAGS:								
DEADFALL / LOGS:								
ABUNDANCE CODES:	N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT				
COMM. AGE:	✓ PIONEER	YOUNG	MID-AGE	MATURE				

### SOIL ANALYSIS:

TEXTURE:	999	DEPTH TO MOTILES / GLEY	g = 999	g = 999
MOISTURE:	999	DEPTH OF ORGANICS:	2 cm	(cm)
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK:	2 cm	(cm)

COMMUNITY CLASSIFICATION:	ELC CODE
COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	Red Cedar Aln Woodland Type
INCLUSION	Red Cedar Aln
COMPLEX	

Notes:

ELC STAND CHARACTERISTICS	SITE:	NAP118/1023	
	POLYGON:	2	
	DATE:	June 20 2016	
	SURVEYOR(S):	DCC/DCA	

### TREE TALLY BY SPECIES:

SPECIES	PRISM FACTOR					TOTAL	REL. AVG
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5		
Red Cedar	2	1	2			5	100
BASAL AREA (BA)	4	2	4			10	
DEAD	0	0	0				

### STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM
---------------------------

Notes:

Deadwood, (cattle on polygon)  
Slight shading  
by cutting

ELC		SITE:	NAP1181023	
POLYGON:		2		
DATE:		June 20 2016		
SURVEYOR(S):		DCE DIA		

Slope UTM

PIA	PP	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1	A	✓	6	—	—	8	1	18T	034467	4912776
2	A	✓	6	—	—	8	1	18T	0344700	4912773
3										
4										
5										

SOL	1	2	3	4	5
TEXTURE x HORIZON					

2cm  
bedrock  
2cm  
bedrock  
2cm  
bedrock

A	TEXTURE					
COURSE FRAGMENTS						
B	TEXTURE					
COURSE FRAGMENTS						
C	TEXTURE					
COURSE FRAGMENTS						
EFFECTIVE TEXTURE						
SURFACE STONINESS						
SURFACE ROCKINESS						
DEPTH TO / OF						

MOTTLES						
GLEYS						
BEDROCK	2cm					
WATER TABLE						
CARBONATES						
DEPTH OF ORGANICS	2cm					
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME	dry					
SOL SURVEY MAP						
LEGEND CLASS						

ELC		SITE:	NAP1181023	
POLYGON:		2		
DATE:		June 20 2016		
SURVEYOR(S):		DCE DIA		

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Viper's Bugloss					
Queen's Mary					
Mullein					
Bulbous					
Garret					
Red Clover					
St. John's Wort					
Pink Sp.					
Green Sp.					
Orange Primrose					
Flowers for					
White Redstem					
W. Rose					
Yellow Scabious					
Yellow Linaria					
Prairie Smoke					
W. plantain					
Apple Sp.					
Gooseberry-leaf					
Blackthorn					
W. Rose					
St. John's Wort					
W. Rose					

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Lavalin</u>	POLYGON: <u>4</u>
	SURVEYOR(S): <u>DCC</u>	DATE: <u>July 24</u>
UTMZ: <u></u>	UTME: <u></u>	UTMN: <u></u>
	start	finish
	16:30	

SYSTEM	SUBSTRATE	TOPOGRAPHIC	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input checked="" type="checkbox"/> WETLAND <input checked="" type="checkbox"/> AQUATIC	<input checked="" type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input checked="" type="checkbox"/> PARENT MIN. <input checked="" type="checkbox"/> ACIDIC BEDR. <input checked="" type="checkbox"/> BASIC BEDR. <input checked="" type="checkbox"/> CARB. BEDR.	<input checked="" type="checkbox"/> LACUSTRINE <input checked="" type="checkbox"/> RIVERINE <input checked="" type="checkbox"/> BOTTOMLAND <input checked="" type="checkbox"/> TERRACE <input checked="" type="checkbox"/> VALLEY SLOPE <input checked="" type="checkbox"/> TABLELAND <input checked="" type="checkbox"/> ROLL UPLAND <input checked="" type="checkbox"/> CLIFF <input checked="" type="checkbox"/> FRESHWATER / CAVE <input checked="" type="checkbox"/> ALVAR <input checked="" type="checkbox"/> ROCKLAND <input checked="" type="checkbox"/> BEACH / BAR <input checked="" type="checkbox"/> SAND DUNE <input checked="" type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL <input checked="" type="checkbox"/> COVER	<input checked="" type="checkbox"/> PLANTON <input checked="" type="checkbox"/> SUBMERGED <input checked="" type="checkbox"/> FLOATING LEO <input checked="" type="checkbox"/> GRAMINOID <input checked="" type="checkbox"/> FORB <input checked="" type="checkbox"/> LICHEN <input checked="" type="checkbox"/> BRYOPHYTE <input checked="" type="checkbox"/> DECIDUOUS <input checked="" type="checkbox"/> CONIFEROUS <input checked="" type="checkbox"/> MIXED	<input checked="" type="checkbox"/> LAKE <input checked="" type="checkbox"/> POND <input checked="" type="checkbox"/> RIVER <input checked="" type="checkbox"/> STREAM <input checked="" type="checkbox"/> MARSH <input checked="" type="checkbox"/> SWAMP <input checked="" type="checkbox"/> FEN <input checked="" type="checkbox"/> BOG <input checked="" type="checkbox"/> BARREN <input checked="" type="checkbox"/> PRAIRIE <input checked="" type="checkbox"/> THICKET <input checked="" type="checkbox"/> SAVANNAH <input checked="" type="checkbox"/> WOODLAND <input checked="" type="checkbox"/> FOREST <input checked="" type="checkbox"/> PONTATION

### STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1	4	W. Pine > T. Aspen > W. Ash
2 SUB-CANOPY	2-3	3	W. Ash > W. Pine > W. Cedar > R. Cedar
3 UNDERSTOREY	4-5	2	Buckhorn & P. Ash > W. Cedar
4 GRD. LAYER	6-7	1	Grass & Aster & Shrub & Y. Hawkweed

HT CODES: 1 = 25 m 2 = 10 < HT 25 m 3 = 2 < HT 10 m 4 = 1 < HT 2 m 5 = 0.5 < HT 1 m 6 = 0.2 < HT 0.5 m 7 = HT < 0.2 m

CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = 50 < CVR < 60%

### STAND COMPOSITION:

STAND COMPOSITION:	Aspen & W. Pine & W. Elm	BA: 2
--------------------	--------------------------	-------

SIZE CLASS ANALYSIS:	< 10	10 - 24	A	25 - 50	N	> 50
STANDING SNAGS:	0	0	10	24	N	N
DEADFALL / LOGS:	0	0	10	24	N	N

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
------------	---------	-------	---------	--------	------------

### SOIL ANALYSIS:

TEXTURE: <u>S/L</u>	DEPTH TO MOTTLES / GLEY: <u>g = 997</u>	G = <u>997</u>
MOISTURE: <u>dry</u>	DEPTH OF ORGANICS: <u>3</u>	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: <u>18</u>	(cm)

### COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	ELC CODE
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	W. Fresh White Pine - hardwood Mixed forest type FDDP3-1
INCLUSION	D & Poplar Dec. forest type
COMPLEX	

Notes:

ELC STAND CHARACTERISTICS	SITE: <u>NADP181023</u>
	POLYGON: <u>4</u>
DATE: <u>June 20 2016</u>	
SURVEYOR(S): <u>DCC DCT</u>	

### TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG.
W. Pine	7	6	2	2	4	15	56
W. Elm	1	1	2	4	3	10	37
W. Cedar	1	1	2	2	2	7	27
TOTAL	7	7	4	4	10	27	100
BASAL AREA (BA)	14	14	8	8	10		
DEAD	1	4	8	2	0		

\*Inclusion

### STAND COMPOSITION:

STAND COMPOSITION:	
--------------------	--

### COMMUNITY PROFILE DIAGRAM

COMMUNITY PROFILE DIAGRAM	
---------------------------	--

Notes:

Disturbance  
- cut trees / active management  
- fire / much trees to canopy



<b>ELC</b> PLANT SPECIES LIST	SITE:	10021181023
	POLYGON:	11
	DATE:	June 20 2016
	SURVEYORS:	BOA

SPECIES CODE	LAYER				COL	SPECIES CODE	LAYER				COL
	1	2	3	4			1	2	3	4	
1. Ash			A								
Brookline			D								

- inclusion

SPECIES CODE	LAYER				COL
	1	2	3	4	
P. Ash			A		
Broadleaves			D		
cal Elm?			D		
Sp. Alder			D		
Red Cedar	A	A	D		
1) Cedar	A	A	D		
Bamwood	K				
Rt. Cherry	R				
White Pine	D	A	D		

WASH	0	0							
I-Aker	0	A							
Buad	ER								
	2	A							
Orange			0						
Cave			0						
66 Hotel			0						
Orange			0						
Timothy			0						

[illegible]

ELC	SITE:	NAP 118/1023		POLYGON:	Meadows	
	SURVEYOR(S):	D.C.C.		DATE:	Jun 25	
COMMUNITY DESCRIPTION & CLASSIFICATION	UTM Z:	PM 6 + DCR	UTM E:	UTM N:	start	finish

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK G BASIC BEDRK G CARB. BEDRK	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL UPLAND G CLIFF G TALLS G OPEN-ROCK G ALVAR G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G MOUNTAIN G HILLS G PLANTATION
SITE			COVER		
G OPEN WATER G SHALLOW WATER G SUPERFICIAL DEPT. G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (?) MUCH GREATER THAN: > GREATER THAN: = ABOUT EQUAL TO)		
LAYER	HT	CVR			
1 CANOPY	3	2	K. ledon > C. ledon > A. F. m. = Burdock		
2 SUB-CANOPY	4	2	Juniper > B. thorn > S. hirsutifolius > A. F. m.		
3 UNDERSTOREY	5	4	S. hirsutifolius > B. thorn > A. F. m.		
4 GRD. LAYER	6-7	4	C. ledon > B. thorn > A. F. m.		
HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-10 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT < 0.2 m					
CVR CODES 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%					
STAND COMPOSITION:			BA:		

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE :	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:		
TEXTURE:	DEPTH TO MOTTLES / GLEY	g = G=
MOISTURE:	DEPTH OF ORGANICS:	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)
COMMUNITY CLASSIFICATION:		
COMMUNITY CLASS:	ELC CODE	
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Shrub Parthen	
INCLUSION	S. hirsutifolius	
COMPLEX		

ELC	SITE:	NAP 118/1023	
	POLYGON:	Meadows	
STAND CHARACTERISTICS	DATE:		
	SURVEYOR(S):		

TREE TALLY BY SPECIES:						
SPECIES	PRISM FACTOR					REL. AVG
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	
TOTAL						100
BASAL AREA (BA)						
DEAD						

STAND COMPOSITION:						
COMMUNITY PROFILE DIAGRAM						
Notes:						

[illegible]

SOIL	1	2	3	4	5
TEXTURE x HORIZON	<p>15 cm</p> <p>2.5 cm</p>	<p>18 cm</p> <p>3 cm</p>	<p>16 cm</p> <p>2.5 cm</p>		

A	TEXTURE					
COURSE FRAGMENTS	S: L	beds				
B	TEXTURE	L10%				
COURSE FRAGMENTS						
C	TEXTURE					
COURSE FRAGMENTS	X					
EFFECTIVE TEXTURE	S: L					
SURFACE STONINESS	2					
SURFACE ROCKINESS	1					
DEPTH TO / OF						
MOTTLES	qqq					
qLEY	qqq					
BEDROCK	15cm					
WATER TABLE	qqq*					
CARBONATES	qqq					
DEPTH OF ORGANICS	2cm					
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME	Ø					
SOIL SURVEY MAP						
LEGEND CLASS						

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUNDANT D = DOMINANT

[illegible]





[illegible]

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT					
SPECIES CODE	LAYER				COL.
	1	2	3	4	
Chestnut		D			
Baldcypress		O			

SPECIES CODE	LAYER				COL.
	1	2	3	4	
White Cedar	A	A		O	
Pine		D	O		

[illegible]



0 0.7 km

Projection: Web Mercator














































































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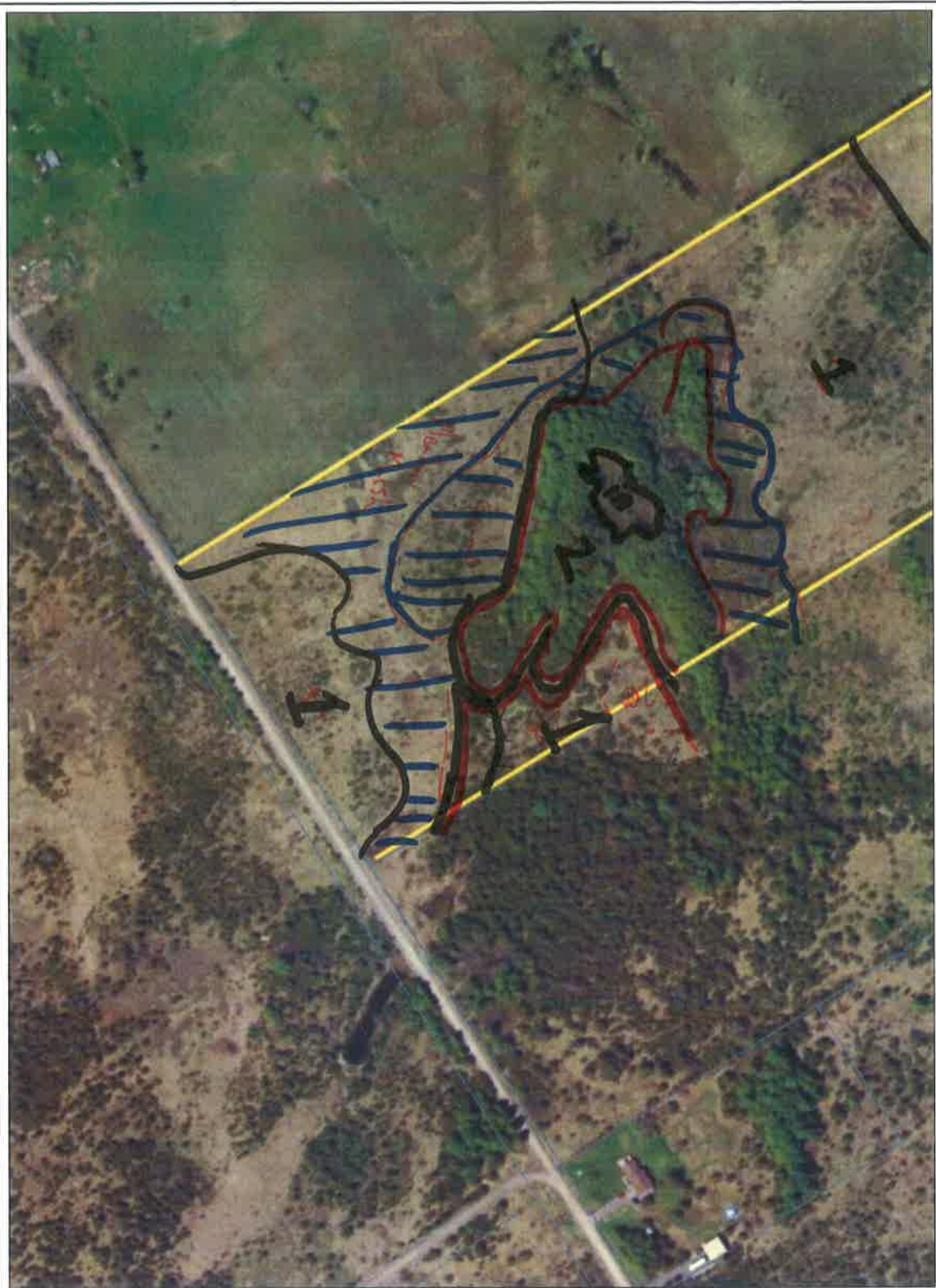
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## Legend

-  Assessment Parcel
-  Woodland
-  Conservation Reserve
-  Provincial Park
-  Natural Heritage System
-  Ecotone
-  Wetland
  -  Provincially Significant Wetland
  -  Non-Provincially Significant Wetland
  -  Wetland Ecotone
  -  Urban Wetland
-  Area of Natural Heritage & Scientific Interest (ANSI)
-  Provincially Significant Life-Supporting Ecosystem (PSE)
-  Earth Science Area (ESA)
-  Greenbelt Plan
-  Boundary
-  River Valley Corridors
-  Land Use Designations
  -  Protected Countryside
  -  Towns and Villages
  -  Harbours
  -  Urban River Valley
  -  Specialty Crop Area
-  Niagara Escarpment Plan (NEP)
-  Boundary
-  Parks and Open Space System
-  Land Use Designations
  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
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  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
  -  Ecologically Sensitive Area
-  Oak Ridges-McKenzie Conservation Plan (ORM)
-  Boundary
-  Land Use Designations
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
-  Oak Ridges-McKenzie Conservation Plan (ORM)
-  Boundary
-  Land Use Designations
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
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  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area
  -  Natural Core Area







0 0.2 km

Projection: Web Mercator



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### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
  - Provincially Significant
  - Wetland Evaluation
  - Non - Provincially Significant
  - Wetland Evaluation
  - Unallocated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
  - Provincially Significant
  - Life Source (AIS)
  - Provincially Significant
  - Earth Science (AES)
- Greenbelt Plan
  - Boundary
  - For or Valley Connections
- Land Use Designations
  - Protected Countryside
  - Towns and Villages
  - Harbours
  - Urban River Valley
  - Specialty Crop Area
- Nature Escapement Plan (NEP)
  - Boundary
  - Plans and Open Space System
- Land Use Designations
  - Escapement Natural Area
  - Escapement Protection Area
  - Escapement Rural Area
  - Make a Resource Extraction Area
  - Escapement Recreation Area
  - Urban Area
- Major Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
  - Boundary
- Land Use Designations
  - Natural Core Area
  - Natural Linkage Area
  - Countryside Area
  - Rural Settlement
  - Polygons: Estates, Residential Community
  - Settlement Area







0 0.2 km

Projection: Web Mercator



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### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
- Provincially Significant Wetland and Estuarine
- Non-Provincially Significant Wetland and Estuarine
- Unregulated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSSI)
- Provincially Significant Life Sciences Area
- Provincially Significant Earth Science Area
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Courtyards
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Nature Escapement Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escapement Natural Area
- Escapement Protection Area
- Escapement Rural Area
- Mineral Resource Extraction Area
- Escapement Recreation Area
- Urban Area
- More Urban Carita
- Oak Ridge Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Legacy Area
- Countryside Area
- Rural Settlement
- Polymer Estuaries
- Rural Settlement
- Settlement Area







0 0.2 km

Projection: Web Mercator













































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## Legend

-  Assessment Parcel
-  Woodland
-  Conservation Reserve
-  Provincial Park
-  Natural Heritage System
-  Ecogion
-  Wetland
  -  Previously Significant Wetland Evaluated
  -  Non - Previously Significant Wetland Evaluated
  -  Unassessed Wetland
-  Area of Natural Heritage & Scientific Interest (ANH&SI)
-  Provincially Significant Life Science ANHS
-  Provincially Significant Earth Science ANHS
-  Greenbelt Plan
-  Boundary
-  Row & Wapay Corridors
-  Land Use Designations
  -  Protected Countryside
  -  Towns and Villages
  -  Hamlets
-  Urban Rural Valley
-  Specialty Crop Area
-  Niagara Escarpment Plan (NEP)
-  Boundary
-  Parks and Open Spaces System
-  Land Use Designations
  -  Escarpment Natural Area
  -  Escarpment Protection Area
  -  Escarpment Rural Area
  -  Mineral Resources Extraction Area
  -  Escarpment Recreation Area
  -  Urban Area
-  Mixed Urban Centre
-  Oak Ridge Mironko Conservation Plan (ORPM)
-  Boundary
-  Land Use Designations
  -  Natural Core Area
  -  Natural Legacy Area
  -  Countrywide Area
  -  Rural Settlement
  -  Palgrave Estates Residential Community
  -  Settlement Area









[illegible]

ELC	SITE:
PLANT	POLYGON:
SPECIES	DATE:
LIST	SURVEY(OR)S: <i>DL</i>

Page ..... of .....





[illegible][illegible]

SOIL	
1	2

A	TEXTURE						
	COURSE FRAGMENTS						
B	TEXTURE						
	COURSE FRAGMENTS						
C	TEXTURE						
	COURSE FRAGMENTS						
	EFFECTIVE TEXTURE						
	SURFACE STONINESS						
	SURFACE ROCKINESS						

DEPTH TO / OF				
MOTTLES				
GLEY				
BEDROCK				
WATER TABLE				
CARBONATES				
DEPTH OF ORGANICS				
PORE SIZE DISC #1				
PORE SIZE DISC #2				
MOISTURE REGIME				
SOIL SURVEY MAP				
LEGEND CLASS				

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

SPECIES CODE	LAYER				COL
	1	2	3	4	
208a Mops					
208b Mops					
208c Mops					
208d Mops					
208e Mops					
208f Mops					
208g Mops					
208h Mops					
208i Mops					
208j Mops					
208k Mops					
208l Mops					
208m Mops					
208n Mops					
208o Mops					
208p Mops					
208q Mops					
208r Mops					
208s Mops					
208t Mops					
208u Mops					
208v Mops					
208w Mops					
208x Mops					
208y Mops					
208z Mops					

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

SPECIES CODE	LAYER				COL
	1	2	3	4	
208a Mops					
208b Mops					
208c Mops					
208d Mops					
208e Mops					
208f Mops					
208g Mops					
208h Mops					
208i Mops					
208j Mops					
208k Mops					
208l Mops					
208m Mops					
208n Mops					
208o Mops					
208p Mops					
208q Mops					
208r Mops					
208s Mops					
208t Mops					
208u Mops					
208v Mops					
208w Mops					
208x Mops					
208y Mops					
208z Mops					

[illegible]

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <i>Lowland NMP 23R</i>	POLYGON: <i>2</i>
	SURVEYOR(S): <i>DLC</i>	DATE: <i>June 23</i>
UTMZ: <i>DLC</i>	UTME: <i>23</i>	UTMN: <i>23</i>

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input checked="" type="checkbox"/> WETLAND <input checked="" type="checkbox"/> AQUATIC	<input checked="" type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input checked="" type="checkbox"/> PARENT MIN. <input checked="" type="checkbox"/> ACIDIC BEDR. <input checked="" type="checkbox"/> BASIC BEDR. <input checked="" type="checkbox"/> CARB. BEDR.	<input checked="" type="checkbox"/> LACUSTRINE <input checked="" type="checkbox"/> RIVERINE <input checked="" type="checkbox"/> BOTTOMLAND <input checked="" type="checkbox"/> TERRACE <input checked="" type="checkbox"/> VALLEY SLOPE <input checked="" type="checkbox"/> TABLELAND <input checked="" type="checkbox"/> ROLL UPLAND <input checked="" type="checkbox"/> TALLS <input checked="" type="checkbox"/> CREVICE / CAVE <input checked="" type="checkbox"/> ALVAR <input checked="" type="checkbox"/> ROCKLAND <input checked="" type="checkbox"/> BEACH / BAR <input checked="" type="checkbox"/> SAND DUNE <input checked="" type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL	<input checked="" type="checkbox"/> PLANKTON <input checked="" type="checkbox"/> SUBMERGED <input checked="" type="checkbox"/> FLOATING-LVD. <input checked="" type="checkbox"/> GRAMINOID <input checked="" type="checkbox"/> FORB <input checked="" type="checkbox"/> LICHEN <input checked="" type="checkbox"/> BRYOPHYTE <input checked="" type="checkbox"/> DECIDUOUS <input checked="" type="checkbox"/> CONIFEROUS <input checked="" type="checkbox"/> MIXED	<input checked="" type="checkbox"/> LAKE <input checked="" type="checkbox"/> POND <input checked="" type="checkbox"/> RIVER <input checked="" type="checkbox"/> STREAM <input checked="" type="checkbox"/> MARSH <input checked="" type="checkbox"/> SWAMP <input checked="" type="checkbox"/> FEN <input checked="" type="checkbox"/> BOG <input checked="" type="checkbox"/> BARREN <input checked="" type="checkbox"/> MEADOW <input checked="" type="checkbox"/> PRAIRIE <input checked="" type="checkbox"/> THICKET <input checked="" type="checkbox"/> SAVANNAH <input checked="" type="checkbox"/> WOODLAND <input checked="" type="checkbox"/> FOREST <input checked="" type="checkbox"/> PLANTATION
SITE			COVER		
<input checked="" type="checkbox"/> OPEN WATER <input checked="" type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input checked="" type="checkbox"/> BEDROCK			<input checked="" type="checkbox"/> OPEN <input checked="" type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED		

STAND DESCRIPTION		SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)	
LAYER	HT	CVR	
1 CANOPY	2	4	White cedars
2 SUB-CANOPY	3	0	
3 UNDERSTOREY	45	1	Pedicularis
4 GRD. LAYER	67	2	Anthriscus
HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT < 0.2 m			
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%			
STAND COMPOSITION: <i>Red cedars</i> BA: <i>41</i>			
SIZE CLASS ANALYSIS:			
	R	< 10	A
		10 - 24	O
		25 - 50	R
		> 50	
STANDING SNAGS: N < 10 N 10 - 24 R 25 - 50 N > 50			
DEADFALL / LOGS: 0 < 10 10 - 24 N 25 - 50 N > 50			
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT			
COMM. AGE:	PIONEER	YOUNG	MID-AGE
			MATURE
			OLD GROWTH

SOIL ANALYSIS:	
TEXTURE: <i>Sandy clay</i>	DEPTH TO MOTTLES / GLEY: <i>g = 15 cm</i>
MOISTURE: <i>2 cm</i>	DEPTH OF ORGANICS: <i>2 cm</i>
HOMOGENEOUS / VARIABLE: <i>14 cm</i>	
COMMUNITY CLASSIFICATION: ELC CODE	
COMMUNITY CLASS:	
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE: <i>Dry White cedars Old Redwood</i>	<i>FOC 551-1</i>
INCLUSION	
COMPLEX	

Notes:

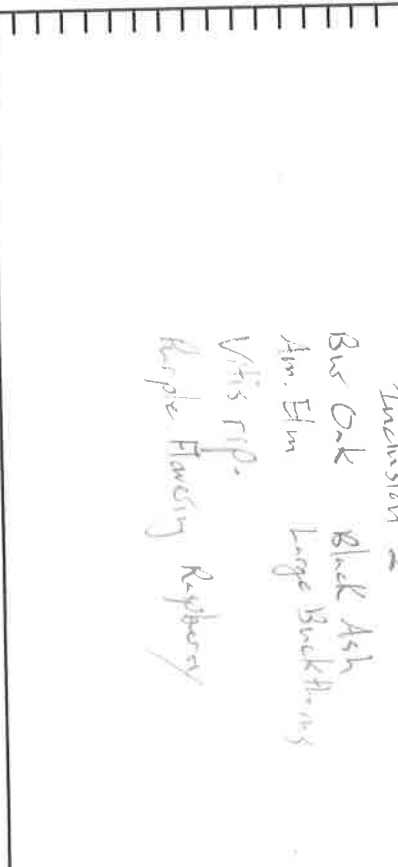
ELC STAND CHARACTERISTICS	SITE: _____	POLYGON: _____
	DATE: _____	SURVEYOR(S): _____

TREE TALLY BY SPECIES:

SPECIES	PRISM FACTOR					TOTAL	REL. AVG
	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5		
<i>White cedar</i>	18	19	25				
TOTAL	18	19	25				100
BASAL AREA (BA)	36	36	50				
DEAD	1	2	0				

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

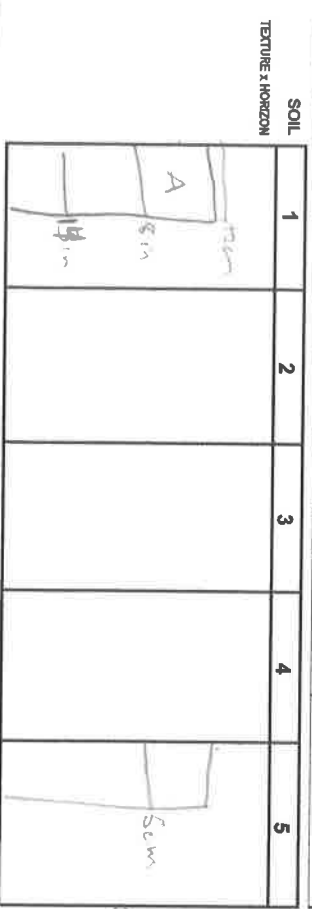


Notes:



ELC	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S): DLE

Slope					UTM	
P/A	PP	Dr	Position	Aspect	%	Type
1	A	1	6	1	5	1
2						
3						
4						
5						



A	TEXTURE	1	2	3	4	5
COURSE FRAGMENTS	Silty clay					
B	TEXTURE					
C	TEXTURE					
EFFECTIVE TEXTURE						
SURFACE STONINESS						
SURFACE ROCKINESS						
DEPTH TO / OF						

MOTTLES	13 in					
GLEYS						
BEDROCK						
WATER TABLE						
CARBONATES						
DEPTH OF ORGANICS						
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME						
SOIL SURVEY MAP						
LEGEND CLASS						

ELC	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

Slope					UTM	
P/A	PP	Dr	Position	Aspect	%	Type
1	A	1	6	1	5	1
2						
3						
4						
5						



A	TEXTURE	1	2	3	4	5
COURSE FRAGMENTS	Silty clay					
B	TEXTURE					
C	TEXTURE					
EFFECTIVE TEXTURE						
SURFACE STONINESS						
SURFACE ROCKINESS						
DEPTH TO / OF						

MOTTLES	13 in					
GLEYS						
BEDROCK						
WATER TABLE						
CARBONATES						
DEPTH OF ORGANICS						
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME						
SOIL SURVEY MAP						
LEGEND CLASS						



<b>ELC</b> PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEY(OR)S:

[illegible][illegible][illegible]The image shows two identical blank 10x10 grids, one above the other. Each grid consists of 10 columns and 10 rows, forming a square area for data recording. The top grid is positioned higher on the page, and the bottom grid is positioned lower. Both grids are empty, with no data entered.



ELC		POLYGON:	
COMMUNITY DESCRIPTION & CLASSIFICATION		7	
SITE:	106157 MAP	DATE:	037
SURVEY(OR)S:	RAVE DDC	TIME:	start finish
UTMZONE:	UTMZONE:	UTMZONE:	UTMZONE:
		1:10	

CHARACTERISTICS	ELC
	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)		
LAYER	HT	CVR
1 CANOPY	2	4
2 SUB-CANOPY	3	3
3 UNDERSTOREY	4/5	3
4 GRD. LAYER	6/7	4

HT CODES: 1 = <25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 50% 4= CVR > 50%

STAND COMPOSITION: BA:

SOIL ANALYSIS:			
TEXTURE:		DEPTH TO MOTTLES / GLEY	g =
MOISTURE:		DEPTH OF ORGANICS:	G=
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK:	(cm)
COMMUNITY CLASSIFICATION:		ELC CODE	
COMMUNITY CLASS:			
COMMUNITY SERIES:			
ECOSITE:			
VEGETATION TYPE:			
INCLUSION			
COMPLEX			

COMMUNITY PROFILE DIAGRAM

<b>ELC</b>		SITE:	
POLYGON:		DATE:	
SURVEYOR(S):		SURVEYOR(S):	

P/A	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1	A	4	✓	✓	S	1	181	0842063	4911930
2									
3									
4									
5									

SOIL

TEXTURE x HORIZON

1	2	3	4	5

A	TEXTURE	1	2	3	4	5
COURSE FRAGMENTS	CL					
TEXTURE	LS 5/5					
COURSE FRAGMENTS	SCL					
TEXTURE	20/10					
COURSE FRAGMENTS						
EFFECTIVE TEXTURE						
SURFACE STONINESS						
SURFACE ROCKINESS						
DEPTH TO / OF						

MOTTLES	25					
GLEY						
BEDROCK	30					
WATER TABLE						
CARBONATES						
DEPTH OF ORGANICS	1					
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME	O/R					
SOIL SURVEY MAP						
LEGEND CLASS						

<b>ELC</b>		SITE:	
PLANT SPECIES LIST		POLYGON:	
DATE:		DATE:	
SURVEYOR(S):		SURVEYOR(S):	

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

ABUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Shrub					
Red Oak	R				
White Oak	R				
Sugar Maple	R				
Hardwood	D				

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Ribes					
Herb					
Black					
Cornus					
Aspen					
Black					
Shrub					
Red Oak					
White Oak					
Sugar Maple					
Hardwood					

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>1541st NAB 638</u>	POLYGON: <u>4</u>
	SURVEYOR(S): <u>RMT NL</u>	DATE: <u>June 23</u>
UTMZ: <u>NLC</u>	UTME: <u>638</u>	UTMN: <u>10:00</u>

POLYGON DESCRIPTION	SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
SITE	G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANTON	G LAKE
	G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G TERRACE	G BOTTOMLAND	G FLOODING LTD.	G RIVER	G STREAM
	G ACIDIC BEDRK	G VALLEY SLOPE	G TAILER SLOPE	G GRASSLAND	G FORB	G MARSH
G BASIC BEDRK	G TAILER SLOPE	G ROLL UPLAND	G TAILER SLOPE	G LOCKEN	G BRYOPHYTE	G SWAMP
	G TALUS	G CREVICE / CAVE	G OPEN	G BRYOPHYTE	G BRYOPHYTE	G BOG
G OPEN WATER	G SHALLOW WATER	G SURFICIAL DEP.	G BEDRK	G COVER	G MIXED	G BARNEN
	G BEDRK	G OPEN	G ALVAR	G ROCKLAND	G BEACH / BAR	G MOWOW
G BEDRK	G OPEN	G SHRUB	G TREED	G SAVANNAH	G THICKET	G PRAIRIE
	G OPEN	G SHRUB	G TREED	G SAVANNAH	G THICKET	G PRAIRIE
G BEDRK	G OPEN	G SHRUB	G TREED	G SAVANNAH	G THICKET	G PRAIRIE
	G OPEN	G SHRUB	G TREED	G SAVANNAH	G THICKET	G PRAIRIE

STAND DESCRIPTION:	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)
LAYER	HT CVR (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2 Redcedar > Am. Elm
2 SUB-CANOPY	4 Redcedar > Buckhorn > Cabbage
3 UNDERSTOREY	5 Ash > Redcedar
4 GRD. LAYER	6 Redcedar > Ash > Redcedar

HT CODES: 1 = >25 m 2 = 10-24 m 3 = 2-9 m 4 = 1-9 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT < 0.2 m  
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION: BA:

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	1	2	2	2
DEADFALL / LOGS:	1	2	2	2
ABUNDANCE CODES:	N = NONE R = RARE O = OCCASIONAL A = ABUNDANT			
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

SOIL ANALYSIS:	TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:			
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:			
COMMUNITY CLASSIFICATION:	ELC CODE			
COMMUNITY CLASS:				
COMMUNITY SERIES:				
ECOSITE:				
VEGETATION TYPE:	Open mixed Oak Bayonet			
INCLUSION				
COMPLEX				

ELC STAND CHARACTERISTICS	SITE: <u>1541st NAB 638</u>
	POLYGON: <u>4</u>
DATE: <u>June 23</u>	
SURVEYOR(S): <u>RMT NL</u>	

TREE TALLY BY SPECIES:	PRISM FACTOR	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
SPECIES								
Redcedar		1	111	1				
Buckhorn								
Am. Elm				1				
TOTAL		2	3	2				100
BASAL AREA (BA)		4	6	4				
DEAD		0	0	0				

STAND COMPOSITION:
COMMUNITY PROFILE DIAGRAM
4x water Inclusion ✓
Am. Elm
Solid sp. > Russian Olive = Gray Bayonet
Bulrush > different (weathers) Cereus spp. > Red canopy
= Late Gallium sp.

Notes:

40 small strip of veg very much like 4  
but with a canopy overtopping of Am. Elm,  
Basswood, Ash





[illegible]

**TREE TALLY BY SPECIES**

**PRISM FACTOR**

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG.
Belted Kingfisher							
Vermilion Warbler							
Rock Wren							
Chestnut Auklet							
TOTAL	7	6					100
BASAL AREA (BA)	19	12					
DEAD							

**STAND COMPOSITION:**

STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50
DEAD/FALL / LOGS:	2	6	0	8
ABUNDANCE CODES:	N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT
COMM. AGE :	PIONEER	YOUNG	MID-AGE	MATURE
SOL. ANALYSIS:				OLD GROWTH
TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =	
MOISTURE:	DEPTH OF ORGANICS:		(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)	
COMMUNITY CLASSIFICATION:			ELC CODE	
COMMUNITY CLASS:				
COMMUNITY SERIES:				
ECOSITE:				
VEGETATION TYPE:	Fresh Moist Green Ash - hardwood lowland Deciduous forest type			
INCLUSION			XODM7-2	
COMPLEX				

COMMUNITY PROFILE DIAGRAM

Notes:

majority of polygon on neighbor property

G\* Would be a small strip very small

Many Bittern Hickory w/ large cankers  
also with damaged leaves/flowers; another legacy (Lilac, Weeping Willow)

ELC		SITE:	
POLYGON:		POLYGON:	
DATE:		DATE:	
SURVEYOR(S):		SURVEYOR(S):	

Slope		UTM				
P/A	Dr	Position	Aspect	%	Type	Class
1						
2						
3						
4						
5						

SOIL		1	2	3	4	5
TEXTURE & HORIZON		1	2	3	4	5
28cm						

A		TEXTURE	1	2	3	4	5
COURSE FRAGMENTS		SIL					
B		TEXTURE	410%				
COURSE FRAGMENTS							
C		TEXTURE					
COURSE FRAGMENTS							
EFFECTIVE TEXTURE		SIL					
SURFACE STONINESS							
SURFACE ROCKINESS							

DEPTH TD / OF		1	2	3	4	5
MOTTLES		999				
GLEY		999				
BEDROCK		28				
WATER TABLE		999				
CARBONATES		999				
DEPTH OF ORGANICS		3-4cm				
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME		1				
SOIL SURVEY MAP						
LEGEND CLASS						

ELC		SITE:	
POLYGON:		POLYGON:	
DATE:		DATE:	
SURVEYOR(S):		SURVEYOR(S):	

Slope		UTM				
P/A	Dr	Position	Aspect	%	Type	Class
1						
2						
3						
4						
5						

SOIL		1	2	3	4	5
TEXTURE & HORIZON		1	2	3	4	5
28cm						

A		TEXTURE	1	2	3	4	5
COURSE FRAGMENTS		SIL					
B		TEXTURE	410%				
COURSE FRAGMENTS							
C		TEXTURE					
COURSE FRAGMENTS							
EFFECTIVE TEXTURE		SIL					
SURFACE STONINESS							
SURFACE ROCKINESS							

DEPTH TD / OF		1	2	3	4	5
MOTTLES		999				
GLEY		999				
BEDROCK		28				
WATER TABLE		999				
CARBONATES		999				
DEPTH OF ORGANICS		3-4cm				
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME		1				
SOIL SURVEY MAP						
LEGEND CLASS						

ELC		SITE:	
POLYGON:		POLYGON:	
DATE:		DATE:	
SURVEYOR(S):		SURVEYOR(S):	

Slope		UTM				
P/A	Dr	Position	Aspect	%	Type	Class
1						
2						
3						
4						
5						

SOIL		1	2	3	4	5
TEXTURE & HORIZON		1	2	3	4	5
28cm						

A		TEXTURE	1	2	3	4	5
COURSE FRAGMENTS		SIL					
B		TEXTURE	410%				
COURSE FRAGMENTS							
C		TEXTURE					
COURSE FRAGMENTS							
EFFECTIVE TEXTURE		SIL					
SURFACE STONINESS							
SURFACE ROCKINESS							

DEPTH TD / OF		1	2	3	4	5
MOTTLES		999				
GLEY		999				
BEDROCK		28				
WATER TABLE		999				
CARBONATES		999				
DEPTH OF ORGANICS		3-4cm				
PORE SIZE DISC #1						
PORE SIZE DISC #2						
MOISTURE REGIME		1				
SOIL SURVEY MAP						
LEGEND CLASS						



ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE	1st NP 038		POLYGON:	2
	SURVEY(ORS)	DATE	TIME	start	finish
	DIC	June 22		7:47	
UTMAZ:	UTME:	UTMN:			

STAND DESCRIPTION:			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
LAYER	HT	CVR	
1 CANOPY	3	3	Red cedar >>> Black Ash
2 SUB-CANOPY	4	2	Red cedar
3 UNDERSTOREY	5	1	Pink Ash > Black Thorn > Tulip tree
4 GRD. LAYER	6	4	oaks > Red cedar > Green

HT CODES: 1 = <25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES @= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 50% 4= CVR > 60%

STAND COMPOSITION: BA:

SOIL ANALYSIS:		
TEXTURE: <i>Clay</i>	DEPTH TO MOTTLES / GLEY	<i>g = 10 in</i> <i>G = 61 in</i>
MOISTURE: <i>Very Wet</i>	DEPTH OF ORGANICS:	<i>5 in</i> (cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	<i>14 in</i> (cm)

<b>ELC</b>  <b>STAND</b> <b>CHARACTERISTICS</b>	<b>SITE:</b>
	<b>POLYGON:</b>
	<b>DATE:</b>
	<b>SURVEYOR(S):</b>

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG.
Redstart	III	O	I	II			
Mistletoe				I			
TOTAL	3	O	I	V			100
BASAL AREA (BA)	b	d	r	e			
DEAD	D	D	P	D			

STAND COMPOSITION:

**COMMUNITY PROFILE DIAGRAM**

**Notes:**

ELC	SITE:
PLANT	POLYGON:
SPECIES	DATE:
LIST	SURVEY(OR)S:

	1	2	3	4	5

DEPTH TO / OF	
MOTTLES	10 in
GLEY	9 1/2 in
BEDROCK	14 in
WATER TABLE	9 9 9
CARBONATES	9 9 9
DEPTH OF ORGANICS	2 1/2 in
PORE SIZE DISC #1	2 cm
PORE SIZE DISC #2	
MOISTURE REGIME	Wet Very Moist
SOIL SURVEY MAP	Reynolds
LEGEND CLASS	

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

[illegible]

**PIN450660080 - NAP013**

**Notes:**  
 Enter map notes



**Legend**

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage Systems
- Ecogion
- Wetland
- Provincially Significant Wetland Evaluated
- Provincially Significant Wetland Evaluated
- Unrelated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSCI)
- Provincially Significant Wetland (PSWS)
- Provincially Significant Earth Science Area (ESA)
- Greenbelt Plan
- Boundary
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Heritage
- Urban Rural Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Private and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Major Urban Centre
- Oak Ridge Moraine Conservation Plan (ORMC)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Legacy Area
- Countryside Area
- Rural Settlement
- Shoreline Erosion
- Farmland Community
- Settlement Area

0  
 0.7 km



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PIN450660080 - NAP013\_2

Notes:  
Enter map notes



### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecological
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Unassessed Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science ANHSI
- Provincially Significant Earth Science ANHSI
- Greenbelt Plan
- Boundary
- River Valley Corridors
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Homesites
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Palgrave Estates Residential Community
- Settlement Area

0 0.2 km



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Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

PIN450660080 - NAP013\_3

Notes:  
Enter map notes



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
- Provincially Significant Natural Area
- National Provincially Significant Wetland
- Unecoluted Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)
- Provincially Significant Land Source (ANSI)
- Provincially Significant Earth Science (ANSI)
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hurkett
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridge Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countyside Area
- Rural Settlement
- Polysite Easels
- Residential Community
- Settlement Area

0 0.2 km



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Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

PIN450660080 - NAP013\_4

Notes:  
Enter map notes



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wetland Evaluated
- Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science ANSI
- Provincially Significant Earth Science ANSI
- Greenbelt Plan
- Boundary
- Row Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridge Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Heritage Area
- Countryside Area
- Rural Settlement
- Polysperma Estuary
- Residential Community
- Settlement Area

0 0.2 km

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ELC

SITE: NAP 13

SOILS ONTARIO

POLYGON: 1

DATE: June 20

SURVEYOR(S): DCC QMF

Slope										UTM	
P/A	PP	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING	
1											
2											
3											
4											
5											

SOIL		1	2	3	4	5
TEXTURE x HORIZON						

A	TEXTURE					
	COURSE FRAGMENTS					
B	TEXTURE					
	COURSE FRAGMENTS					
C	TEXTURE					
	COURSE FRAGMENTS					
	EFFECTIVE TEXTURE					
	SURFACE STONINESS					
	SURFACE ROCKINESS					

	DEPTH TO / OF					
	MOTTLES					
	GLEYS					
	BEDROCK					
	WATER TABLE					
	CARBONATES					
	DEPTH OF ORGANICS					
	PORE SIZE DISC #1					
	PORE SIZE DISC #2					
	MOISTURE REGIME					

	SOIL SURVEY MAP					
	LEGEND CLASS					

ELC

SITE:

PLANT

POLYGON:

SPECIES

DATE:

LIST

SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COL
	1	2	3	4		1	2	3	4	
Can. vetch					Shrubby Willow					
Goldenrod spp.					Sweet Gum					
Willow sp.					Berry n. h. w.					
Bur oak sp.					Slender Birch					
Ill. buckeye					Willow Green					
Can. persimmon					Willow sp.					
Tomato leaf					Red cedar					
Aspen										
Canoe sp.										
Red Cherry Grass										
Black Birch										
Ox-eye Daisy										
Thorned Birch										
Cornus										
White Cherry										
Field Strawberry										
Red Clover										
Rubus										
White Birch										
Goat's Beard										
Yellow Sweet Oak										
Galium sp.										
Honey-suckle										
Hamamelis sp.										



PIN450660107 - NAP120

Notes:  
Enter map notes



## Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wetland Evaluated
- Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANH&SI)
- Provincially Significant Life Source Area (LSA)
- Provincially Significant Earth Science Area (ESA)
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Palgrave Estates
- Residential Community
- Sediment Area

0 0.3 km

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0.2 km

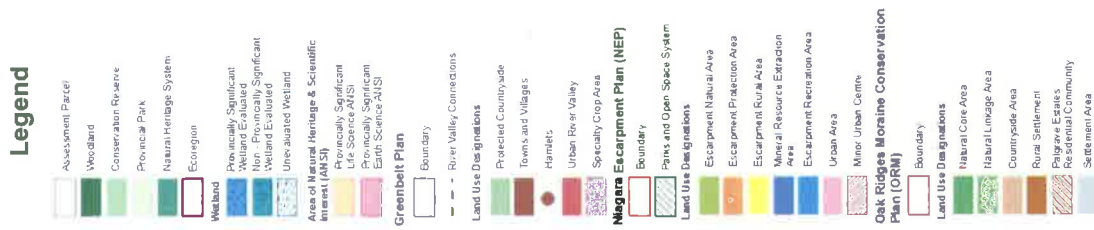
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PIN450660107 - NAP120\_3

Notes:  
Enter map notes



### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland Evaluated
- Provincially Significant Wetland Evaluated
- Unrated Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)
- Provincially Significant Wetland Evaluated
- Provincially Significant Wetland Evaluated
- Provincially Significant Wetland Evaluated
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Heritage
- Urban River Valley
- Specialty Crop Area
- Napan Escarpment Plan (NEP)
- Boundary
- Plans and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridge Moraine Conservation Plan (ORM)
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Private Estates
- Residential Community
- Settlement Area

0 0.1 km



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Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

PIN450660107 - NAP120\_4

Notes:  
Enter map notes



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Physiocal Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wetland Evaluated
- Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science ANHSI
- Provincially Significant Earth Science ANHSI
- Greenbelt Plan
- Boundary
- River Valley Corridors
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hurmeis
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Palgrave Escarpment
- Recreational Community
- Settlement Area

0.1 km



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# ELC

SOILS ONTARIO

SITE: Longlot NPP120  
POLYGON:  
DATE: June 13, 2016  
SURVEYOR(S): DCA PMG

Slope

UTM

P/A	PP	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1	A	0	6	/	8	1	18T	0342811	4912465	177
2	A	0	6	/	8	1	18T	0342825	4912431	178
3										
4										
5										

SOIL	1	2	3	4	5
TEXTURE x HORIZON					

A  
A  
Bedrock  
Bedrock

Silty Sand  
S-S  
pebbles

Silty Sand  
S-S  
pebbles

DEPTH TO / OF

MOTTLES	999	999			
GLEY	999	999			
BEDROCK	24	12			
WATER TABLE	999	999			
CARBONATES	999	999			
DEPTH OF ORGANICS	3	3			
PORE SIZE DISC #1					
PORE SIZE DISC #2					
MOISTURE REGIME					
SOIL SURVEY MAP					
LEGEND CLASS					

# ELC

SITE: Longlot NPP120  
POLYGON:  
DATE: June 13, 2016  
SURVEYOR(S): DCA PMG

LAYERS:

1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Hieracium				A	
Xeror				O	
Red Clover				O	
Vitis N. sp.				O	
Engelm. oak				O	
Adiantum				R	
T. N. sp. ex				O	
Asplenium				R	
Weiss. green				O	
Idris				R	
Dianthus carth.				O	
Asplenium sp.				O	
Polygonum				O	













ELC	SITE: Localist NAP 120	POLYGON: 4
COMMUNITY DESCRIPTION & CLASSIFICATION	SURVEYOR(S): RME DLC	DATE: June 13
	UTMZ:	UTMN:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING LVD.	G RIVER
	G ACIDIC BEDRK	G VALLEY SLOPE		G FORB	G STREAM
	G BASIC BEDRK	G ROLL UPLAND		G LICHEN	G MARSH
	G CARB BEDRK	G TALLS		G BRYOPHYTE	G SWAMP
		G CREVICE / CAVE		G DECIDUOUS	G FEN
		G ALVAR		G CONIFEROUS	G BOG
		G ROCKLAND		G MIXED	G BARREN
		G BEACH / BAR			G MEADOW
		G SAND DUNE			G SAVANNAH
		G BLUFF			G WOODLAND
					G FOREST
					G 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 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m  
CVR CODES 0 = NONE 1 = 0% < CVR 10% 2 = 10 < CVR 25% 3 = 25 < CVR 60% 4 = CVR > 60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:				
DEADFALL / LOGS:				
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT				
COMM. AGE:	✓ PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Silty clay	DEPTH TO MOTTLES / GLEY	g = 18	G = 999
MOISTURE: Dry	DEPTH OF ORGANICS:	3	(cm)
HOMOGENEOUS: VARIABLE	DEPTH TO BEDROCK:	30	(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:		ELC CODE
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Dry & Calcareous Bedrock Can. Meadow	MEER1
INCLUSION		
COMPLEX		

Notes:

ELC	SITE:
STAND CHARACTERISTICS	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							
BASAL AREA (BA)							100
DEAD							

STAND COMPOSITION:

--

COMMUNITY PROFILE DIAGRAM

--

Notes:

ELC  
SITE: Cayahant NWP120  
POLYGON:  
DATE: June 13 2016  
SURVEYOR(S): DLA RMB

P/A	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1	AS	6	—	—	3	1	1st	0342196	4912331
2									
3									
4									
5									

SOIL	1	2	3	4	5
TEXTURE & HORIZON					
	A				
	Bedrock				

A	TEXTURE	silty clay
	COURSE FRAGMENTS	no
B	TEXTURE	
	COURSE FRAGMENTS	
C	TEXTURE	
	COURSE FRAGMENTS	
	EFFECTIVE TEXTURE	silty clay
	SURFACE STONINESS	3
	SURFACE ROCKINESS	4

	DEPTH TO / OF	
	MOTTLES	18
	GLEY	999
	BEDROCK	30
	WATER TABLE	999
	CARBONATES	2
	DEPTH OF ORGANICS	
	PORE SIZE DISC #1	
	PORE SIZE DISC #2	
	MOISTURE REGIME	dry
	SOIL SURVEY MAP	
	LEGEND CLASS	

ELC  
SITE: Cayahant NWP120  
POLYGON:  
DATE: June 13 2016  
SURVEYOR(S): DLA RMB

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER  
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COL.
	1	2	3	4	
Poa sp.				AA	
Eragrost					
Hyperic					
Asclepias sy					
Vicia cruce					
Self heal					
Solidago					
Carex					
Grass head					
Rail clover					
Colinus v. m					
Erigeron					
Red clover					
Donner's cat					
Carex 3					
Rush (Juncus)					
1. h. s					
Red clover					
Rumex crisp					
Stellaria gem					





ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Luxist N1P120</u>	POLYGON: <u>3</u>
	SURVEYOR(S): <u>DLC RMG</u>	TIME: <u>13:00</u>
	DATE: <u>June 13</u>	start finish
	UTMZ: <u>UTM:</u>	UTMN: <u>1300</u>

## POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" 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 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"/> BLUFF <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 checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<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 type="checkbox"/> DESCHLOUS <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
SITE			COVER		
<input type="checkbox"/> OPEN WATER <input checked="" type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEE <input type="checkbox"/> BEDROCK			<input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED		

## STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	4	White cedar > Dogwood
2 SUB-CANOPY	4	4	" "
3 UNDERSTOREY	5	4	" " " " " "
4 GRD. LAYER	6	4	Grass > Aster = Goldenrod

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

## STAND COMPOSITION:

Red cedar & White Cedar	BA: 2
-------------------------	-------

SIZE CLASS ANALYSIS:	0	< 10	A	10-24	N	25-50	N	> 50
STANDING SNAGS:		R	< 10	R	10-24	N	25-50	N
DEADFALL / LOGS:		R	< 10	R	10-24	N	25-50	N

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE:		PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
------------	--	---------	-------	---------	--------	---------------

## SOIL ANALYSIS:

TEXTURE: <u>SiC</u>	DEPTH TO MOTTLES / GLEY	g = 16	G = 999
MOISTURE:	DEPTH OF ORGANICS:	4 cm	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	30	(cm)

## COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	ELC CODE
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	Dry-fresh White Cedar Coniferous Forest
INCLUSION	FOCM4
COMPLEX	

Notes:

ELC STAND CHARACTERISTICS	SITE: <u>Luxist N1P120</u>
	POLYGON: <u>3</u>
	DATE: <u>June 13 2016</u>
	SURVEYOR(S): <u>DLC RMG</u>

## TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Red cedar	1					3	50
White cedar	1					3	50
TOTAL	4	2				6	100
BASAL AREA (BA)	8	4				12	
DEAD	0						

## STAND COMPOSITION:

## COMMUNITY PROFILE DIAGRAM

Notes:

SOILS ONTARIO		SITE: <i>loyalut NPP 120</i>	
		POLYGON: <i>3</i>	
		DATE: <i>June 13</i>	
		SURVEYOR(S): <i>DLA RMG</i>	

Slope

UTM

P/A	Dr	Position	Aspect	%	Type	Class	Z	EASTING	NORTHING
1	A	4	S	6	✓	1	187	034 2434	491 2464
2	A	4	S	6	✓	1	187	034 2870	491 2392
3	A	4	S	6	✓	1	187	034 2887	491 2437
4									
5									

182  
187  
184

SOIL

TEXTURE x HORIZON

1	2	3	4	5
<i>A</i> <i>8</i> <i>C</i>	<i>A</i> <i>Brock</i> <i>33</i>	<i>A</i> <i>3</i>		

B6

*granite*

*silt clay*

A

VCSCL

*Sandy clay loam* *Sandy clay loam* *Silt clay*

COURSE FRAGMENTS

*pebbles* *Few*

*Few*

B

*Sandy clay loam*

*no*

COURSE FRAGMENTS

*no*

C

*no*

COURSE FRAGMENTS

*no*

EFFECTIVE TEXTURE

*Sandy clay loam* *Silt clay* *Silt clay*

SURFACE STONINESS

*1*

*2*

*1*

SURFACE ROCKINESS

*0*

*0*

*0*

DEPTH TO / OF

MOTTLES

*2C*

*1C*

*1C*

GLEYS

*999*

*999*

*999*

BEDROCK

*5C*

*3S*

*3S*

WATER TABLE

*999*

*999*

*999*

CARBONATES

*50*

*999*

*999*

DEPTH OF ORGANICS

*2*

*2*

*2*

PORE SIZE DISC #1

*2*

*2*

*2*

PORE SIZE DISC #2

*2*

*2*

*2*

MOISTURE REGIME

*Vertical wet not wet*

SOIL SURVEY MAP

*Vertical wet not wet*

LEGEND CLASS

*Vertical wet not wet*





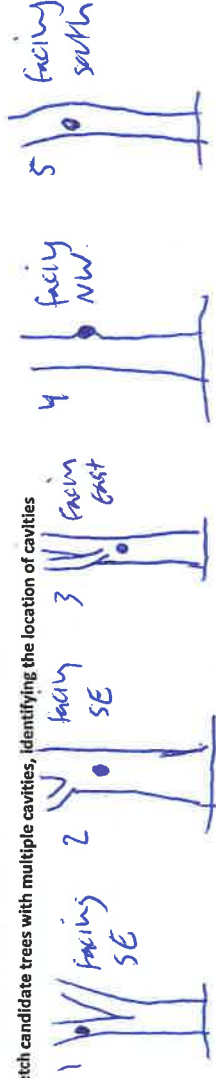


Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees

Page 2 of 2

Identify the best potential roost trees in the applicable woodland/polygon:										Additional for each ha up to 30	
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes	Photo Number(s)			
1	Sugar Maple	1	~40cm	7-8m	10-12m	WP620	caduceus stems	68/69			
2	Sugar Maple	1	~60cm	8m	15m	WP621		143/144			
3	Sugar Maple	1	~50cm	6m	15m	WP622		146/147			
4	Sugar Maple	1	~60cm	5m	15m	WP623		148/149			
5	Sugar Maple	1	~40cm	7-8m	12m	WP624		156/157			
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

Sketch candidate trees with multiple cavities, identifying the location of cavities



## Candidate Bat Maternity Roost Data Form

Use this form in FOD, FOM

Page 1 of 2

Project Name: 1016001

Project #:

163674

Polygon Size: 4ha

Community Age: Young/Mid-Age/Mature/Old Growth

Start Time: 1500

End Time

Date: May 11, 2016

Surveyor(s): John &amp; Danyla

Polygon ID

Weather Conditions: 22°/0/10

Plot Centre: Pre-mapped / Site survey

Grid

# cavity trees ≥  
25cm dbh

Plot Centre UTM (Zone: )

Comments

Plot 1

Plot 2

Plot 3

Plot 4

Plot 5

Plot 6

Plot 7

Plot 8

Plot 9

Plot 10

Plot 11

Plot 12

Plot 13

Plot 14

Plot 15

Plot 16

Plot 17

Plot 18

Plot 19

Plot 20

Plot 21

Plot 22

Plot 23

Plot 24

Plot 25

Plot 26

Plot 27

Plot 28

Plot 29

Plot 30

Plot 31

Plot 32

Plot 33

Plot 34

Plot 35

trees surveyed 24

Sugar Maple mature RED

Total Snag Density = total # cavity trees / (# plots x .05ha)

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

Plots = 12.6m radius (= 0.05ha)



## Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees

Identify the best potential roost trees in the applicable woodland/polygon: <10ha in size = up to 10 >10ha in size = 1 additional for each ha up to 30										Photo Number(s)	
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes				
1	Carya sp.	1	94	7m	15m	WP 618				56/57	
2	"	1	59	9m	15m	WP 619				58/59	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
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19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

Sketch candidate trees with multiple cavities, identifying the location of cavities



## Candidate Bat Maternity Roost Data Form

NAPO38

Use this form in FOD, FOM

Page 1 of 2

Project Name:

Project #:

163674

Polygon Size:

Date:

May 11, 2016

Community Age: Young

Surveyor(s): JWB

Start Time: 12:00

End Time: 13:30

Polygon ID:

Weather Conditions:

Plot Centre: Pre-mapped / Site survey / Grid.

# cavity trees  $\geq$   
25cm dbh

Plot Centre UTM (Zone: )

trees  $>25cm$  dbh

Comments

Common blue violet / round-leaved violet / woodland strawberry.

Plot 1

Plot 2

Plot 3

Plot 4

Plot 5

Plot 6

Plot 7

Plot 8

Plot 9

Plot 10

Plot 11

Plot 12

Plot 13

Plot 14

Plot 15

Plot 16

Plot 17

Plot 18

Plot 19

Plot 20

Plot 21

Plot 22

Plot 23

Plot 24

Plot 25

Plot 26

Plot 27

Plot 28

Plot 29

Plot 30

Plot 31

Plot 32

Plot 33

Plot 34

Plot 35

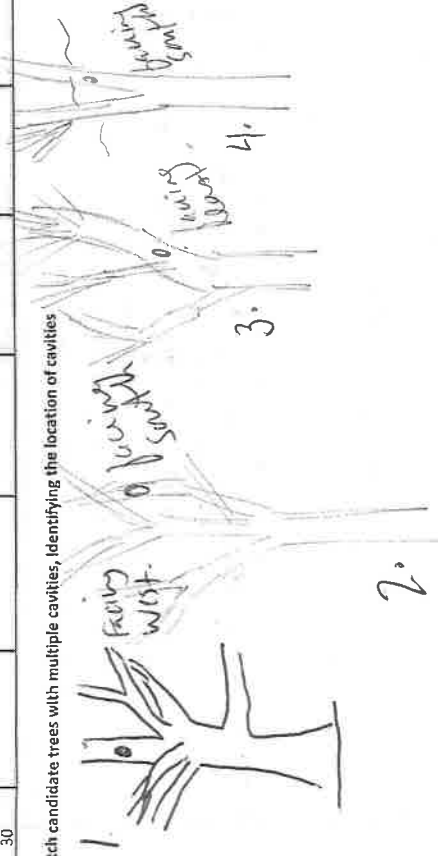
Total Snag Density = total # cavity trees / (# plots x .05ha)

Number of Plots: Sites  $\leq 10$  ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots)

Plots = 12.6m radius (= 0.05ha)

Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees										Page 2 of 2
Identify the best potential roost trees in the applicable woodland/polygon:										
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes	Photo Number(s)		
1	Ostriv	1	26	2.5m	8m	WP614		44/45		
2	Sugar Maple	1	33	7m	10-12m	WP615		46/47		
3	Waluo.	1	33	7m	10m	WP616		48/49		
4	Ostriv	1	27	6m	12m	WP617		50/51		
5										
6										
7										
8										
9										
10										
11										
12										
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14										
15										
16										
17										
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19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

Sketch candidate trees with multiple cavities, identifying the location of cavities





**Candidate Bat Maternity Roost Data Form** PIN - TL-LINE PRIMARY Page 1 of 2

Use this form in FOD, FOM  
Project Name: Loydcast Polygon Size: Community Age: Young/Mid-Age/Mature/Old Growth

Start Time: 4:00 pm End Time: APRIL 27/16 Date: JFH + KM Surveyor(s): JFH + KM

Polygon ID: Weather Conditions: 12°C, Sunny Plot Centre: Pre-mapped / Site survey

Plot Number	R cavity trees $\geq 2.5$ cm dbh	Plot Centre UTM (Zone: <u>18</u> )	Comments
Plot 1	1	WP14	White Birch, white cedar, dense, covered
Plot 2	0	WP28	918 - Shaven, white Pine, white cedar, open
Plot 3	0	WP40	Sugar maple, leaved
Plot 4	0	WP12	Thick 55 white cedar, shrub red cedar
Plot 5	0	WP17	White cedar, shrub red cedar, canopy open, top of slope, white cedar
Plot 6	0	WP38	White cedar, lots of mushrooms
Plot 7	0	WP23	In old white cedar, area cleared by 160 Oak, 924-926
Plot 8	0	WP44	Old cedar, young, pink Ash
Plot 9	0	WP31	White Ash, lots of low branches, many dead
Plot 10	0	WP11	Forest - Young white cedar
Plot 11	0	WP20	Young white cedar - 2 white cedar > 25 dbh
Plot 12	0	WP21	White cedar - low branches, low stream
Plot 13	0	WP45	White cedar, old tree bark falling off
Plot 14	0	WP10	Ash, Maple
Plot 15	0	WP4	Maple
Plot 16	0	WP5	Maple, multi-stem
Plot 17	0	WP6	Maple, deep channel is wetland, lots of standing water
Plot 18	0	WP9	Maple, Ash
Plot 19	0	WP2	"
Plot 20	0	WP8	Ash, Maple
Plot 21	0	WP7	
Plot 22	0	WP3	
Plot 23	0	WP1	2 older trees above 25 dbh but no cavities 366-369
Plot 24			
Plot 25			
Plot 26			
Plot 27			
Plot 28			
Plot 29			
Plot 30			
Plot 31			
Plot 32			
Plot 33			
Plot 34			
Plot 35			

Total Snag Density = total # cavity trees / (H plots x .05Ha)

Number of Plots: Sites  $\leq 10$ ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots)

Plots = 12.6m radius (= 0.05Ha)

Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees										Page 2 of 2
Identify the best potential roost trees in the applicable woodland/polygon: <10ha in size = up to 10 >10ha in size = 1 additional for each ha up to 30										
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes	Photo Number(s)		
1	W. Bl. Oak	1	25.4	8m	~10m	WP139-KM	-Fungus	318-317		
2	maple	1	7.25	5	~12m	WP155 (Plot 1123)		361-362		
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
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23										
24										
25										
26										
27										
28										
29										
30										

Sketch candidate trees with multiple cavities, identifying the location of cavities

W moved WP9 - water too deep to cross.  
" WP2

" - 1m flooded area

② Stems don't meet site criteria  
- Not sure whether cavity

April 2016  
27/28.2016

Candidate Bat Maternity Roost Data Form				PIN - T-Line Parkway		Page 1 of 2	
Use this form in FOD, FOM				Community Age: Young/Mid-Age/Mature/Old Growth			
Project Name: <u>Loyalist</u>				Polygon Size:			
Start Time: <u>16:00</u>				End Time: <u>10:10 (25/04/16)</u>		Date: <u>27/04/16</u>	
Weather Conditions: <u>Sunny, 12°C</u>				Plot Centres: <u>Pre-mapped</u>		Site survey	
Plot Number	# cavity trees $\geq$ 25cm dbh	Plot Centre UTM (Zone: <u>17</u> )	Comments				
Plot 1	1	WP32	Sugar maple FOD, Sugar maple, Asterix, heart lilac				
Plot 2	0	WP26	no trees $>25$ cm DBH, Asterix, Sugar maple, ash.				
Plot 3	0	WP34					
Plot 4	0	WP27	Thuyace grove, none $>25$ cm. pie 53				
Plot 5	0	WP24	Red cedar / prickly ash, none $>25$ cm pie 54				
Plot 6	0	WP42	mainly cedar, prickly ash, few maples pie 55				
Plot 7	0	WP16	cedar grove, & trail pie 57				
Plot 8	0	WP43	prickly ash, few small cedar, none $>25$ cm				
Plot 9	0	WP29	young Quercus, Asterix, cherry				
Plot 10	0	WP30	large holly, saplings				
Plot 11	0	WP19 - invad	was in plot, Thuyace grove				
Plot 12	0	WP41	cedar grove, none $>25$ cm - prickly ash abundant.				
Plot 13	0	WP37	cedar grove w/ ground pine - none $>25$ cm				
Plot 14	0	WP36	cedar grove				
Plot 15	0	WP18	cedar grove - none $>25$ cm.				
Plot 16	0	WP22	cedar / Asterix grove none $>25$ cm				
Plot 17	0	WP39	cedar grove, none $>25$ cm				
Plot 18	0	WP33	3 Sugar maple, cedar - no cavity obs.				
Plot 19	0	WP13	cedar w/oi - Thuyace w/ ground juniper none $>25$ cm				
Plot 20	0	WP15	cedar grove, - none $>25$ cm				
Plot 21	0	WP25	some large cedar, - ash, prickly ash, cedar.				
Plot 22							
Plot 23							
Plot 24							
Plot 25							
Plot 26							
Plot 27							
Plot 28							
Plot 29							
Plot 30							
Plot 31							
Plot 32							
Plot 33							
Plot 34							
Plot 35							

Total Snag Density = total # cavity trees / (# plots x .05ha)

Number of Plots: Sites  $\leq 10$ ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots)

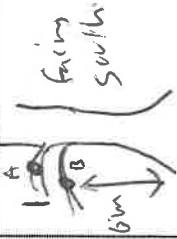
Plots = 12.6m radius (= 0.05ha)

WJ



Preparation for EOS Bat Monitoring: Identification of High Quality Potential Roost Trees								Page 2 of 2	
Identify the best potential roost trees in the applicable woodland/polygon:								Additional for each ha up to 30	
Tree #	Species	# of Cavities	DBH (cm)	Cavity height(s)	Tree height	UTM	Notes	Photo Number(s)	
1	Sycamore	2	79cm	6-7	230m	645 549	on limbs,	46, 47.	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

Sketch candidate trees with multiple cavities, identifying the location of cavities



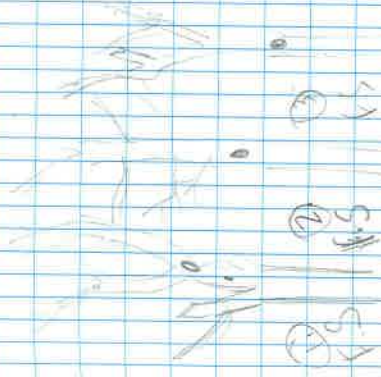
Project Name: Loyalist Pro. # = 103674  
Community App. Mid-Adge  
Start: 8:45am End: 11:15  
Polygon 10 Plot Centre: Pre-Mapped

Plot No	No. cavity 25.00m	Plot Centre	Comments	No. Holes Sentry	Tree	Sp	Can.	NB#	C.H.	T.H.	Res	UTM
1	0	2	FOD	Li	1	Rat	2	39	7	15	42	174
2	0	3	FOD	Li	2	Sp Maple	1	32	7	14	3.4	175
3	0	13	FOD	Li	3	W. Ash	1	33	6	15	5.6	176
4	0	5	FOD	Li								
5	0	12	FOD	Li								
6	0	6	FOD	Li								
7	0	22	FOD	Li								
8	0	7	FOD	Li								
9	0	4	FOD	Li								
10	0	8	FOD	Li								
11	0	19	FOD	Li								
12	0	9	FOD	Li								
13	0	11	FOD	Li								
14												

Thickens and deads - likely by  
Sawtooth - PC  
Pinequill

partial  
removal

agitated  
state





**NAP013 - uneval. wetland**

**Notes:**  
Enter map notes



0.2 km

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### Legend

- 
- Assessment Parcel**
- Woodland
  - Conservation Reserve
  - Provenance Park
  - Natural Heritage System
  - Ecoregion
  - Wetland
  - Provincially Significant Wetland Evaluated
  - Wetland Evaluated Significant Wetland Evaluated
  - Unassessed Wetland
  - Inland Natural Heritage & Scientific Interest (AINSI)
  - Provincially Significant Land Use (PSLUS)
  - Provincially Significant Earth Science Area (ESA)
- Greenbelt Plan**
- Boundary
  - River Valley Corridors
  - Land Use Designations
  - Protected Countryside
  - Towns and Villages
  - Harmless
  - Urban River Valley
  - Specialty Crop Area
- Nature Excurement Plan (NEP)**
- Boundary
  - Parks and Open Space System
  - Land Use Designations
  - Escapement Natural Area
  - Escapement Protection Area
  - Escapement Rural Area
  - Mining Resource Extension Area
  - Escapement Recreation Area
  - Urban Area
  - Minor Urban Centre
- Oak Ridges Marine Conservation Plan (ORM)**
- Boundary
  - Land Use Designations
  - Natural Core Area
  - Natural Linkage Area
  - Countryside Area
  - Rural Settlement
  - Pilgrimage Estates
  - Recreational Community
  - Sustainable Area





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Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

NAP013 - north2

Notes:  
Enter map notes



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland Evaluated
- Non-Provincially Significant Wetland Evaluated
- Unallocated Wetland
- Area of Natural Heritage & Scientific Interest (ANH&SI)
- Provincially Significant Levee System (PLeS)
- Provincially Significant Earth Science Area (PESA)
- Greenbelt Plan
- Boundary
- — — River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Harbours
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Language Area
- Countryside Area
- Rural Settlement
- Pasture Escapes
- Residential Community
- Settlement Area

0 0.2 km

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Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

PIN450660071 - NAP021

Notes:  
Enter map notes



Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Promotically Significant
- Ecologically Significant
- Non-Promotically Significant
- Wetland Evaluated
- Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Promotically Significant Life Science ANSI
- Promotically Significant Earth Science ANSI
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Habitats
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridge Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Palgrave Estates
- Residential Community
- Settlement Area

0 0.3 km



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PIN450660071 - NAP021\_3

Notes:  
Enter map notes



### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Unrated Wetland
- Area of Natural Heritage & Scientific Interest
- Provincially Significant Life Science Area
- Provincially Significant Earth Science Area
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Marine Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridge Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Language Area
- Countryside Area
- Rural Settlement
- Palgrave Estates Residential Community
- Settlement Area

0 0.2 km



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NAP022

Notes:  
Enter map notes



### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wetland Evaluated
- Wetland Evaluated
- Area of Natural Heritage & Scientific Interest (ANSI)
- Provincially Significant Life Source AHS
- Provincially Significant Earth Science AHS
- Greenbelt Plan
- Boundary
- Flow Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hardtels
- Urban Real Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mount Pleasant Escarpment Area
- Escarpment Recreation Area
- Urban Area
- Major Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Heritage Area
- Countryside Area
- Rural Settlement
- Palgrave Estates Residential Community
- Settlement Area

0 0.2 km



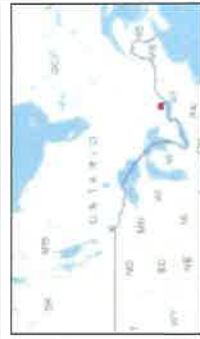
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**PIN4450660126/450660123 -  
NAP118/NAP023**

**Notes:**  
Enter map notes



0.7 km

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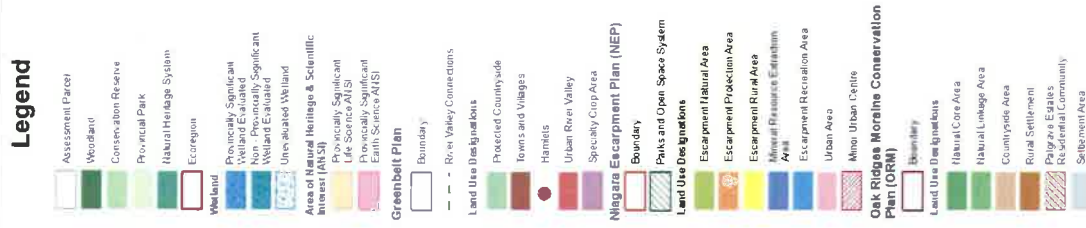












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ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: NAP 038 - Layalst	POLYGON: S1/M1
	SURVEYOR(S): Jonathan Harris	DATE: 17/06/16
	UTMZ:	UTMN:
		TIME: start 09:45 finish 10:30

POLYGON DESCRIPTION					
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK	G VALLEY SLOPE		G FORB	G MARSH
		G TABLELAND		G LICHEN	G SWAMP
		G CLIFF		G PHRYOPHYTE	G FEN
		G ROLL UPLAND		G DECIDUOUS	G BOG
		G CREEVE / CAVE		G CONIFEROUS	G BARREN
	G CARB BEDRK	G ALVAR	COVER	G MIXED	G MEADOW
SITE		G ROCKLAND			G THicket
	G OPEN WATER	G BEACH / BAR	G OPEN		G SAVANNAH
	G SHALLOW WATER	G SAND DUNE	G SHRUB		G WOODLAND
	G SURFICIAL DEP.	G BLUFF	G TREED		G FOREST
G BEDROCK					G PLANTATION

STAND DESCRIPTION:			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
LAYER	HT	CVR	
1 CANOPY			
2 SUB-CANOPY	3	2	Poplar
3 UNDERSTOREY	3	3	Salix sp.
4 GRD. LAYER	5	3	Carex sp. > madder

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION:

BA:

SIZE CLASS ANALYSIS:			< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:			< 10	10 - 24	25 - 50	> 50
DEADFALL / LOGS:			< 10	10 - 24	25 - 50	> 50

ABUNDANCE CODES:		N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT		
COMM. AGE :		PIONEER	YOUNG	MID-AGE	MATURE	OLD	GROWTH

SOIL ANALYSIS:			
TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Willow Mineral Deciduous Thicket Swamp	SWT M3
INCLUSION		
COMPLEX		

Notes: Narrow-leaved sedge Graminoid  
Mineral Meadow Marsh MAMM-9 (M1)

<div> <div>ELC</div> <div>STAND CHARACTERISTICS</div> </div>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

[illegible]

STAND COMPOSITION: \_\_\_\_\_

- SWT along the north side of FOC the is slightly higher in elevation
- MAM appears to be associated with an old laneway.

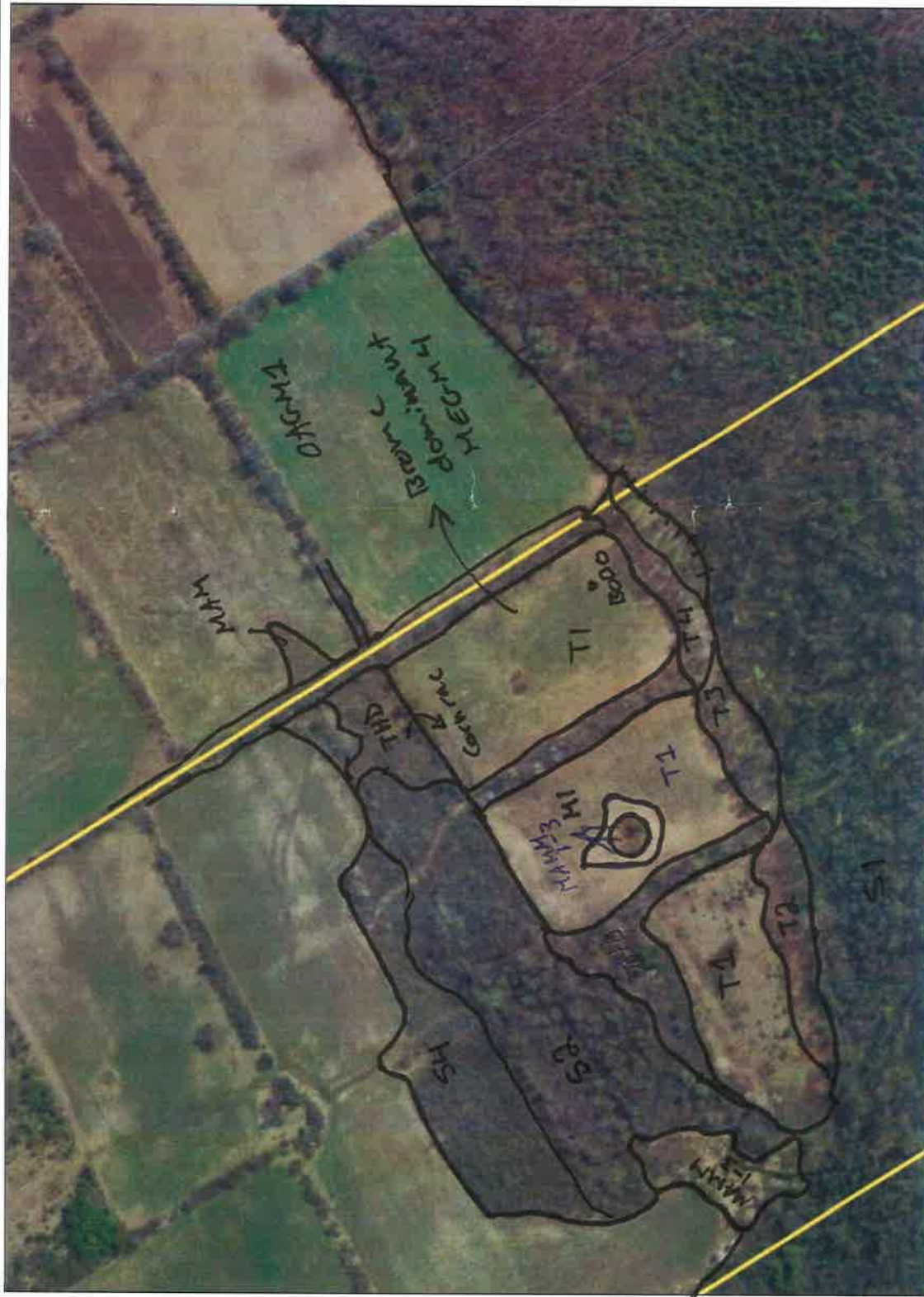
**Notes:**











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Site: NAP 120 - Loyalist Observer (s): JWH Date: Jun 14, 2016

Field No: <u>51</u>		Wetland Type: <u>Swamp</u>		Site Type: <u>h</u>		Dominant Form: <u>h</u>	
% Open Water: <u>0%</u>		Water Depth (cm): <u>10-20</u>		Depth of Organics (cm): <u>&gt;30</u>			
Soil: A <u>0%</u>		Depth to Mottles (cm): <u>—</u>		Gley (cm): <u>—</u>			
B <u>—</u>		Depth to Mottles (cm): <u>—</u>		Gley (cm): <u>—</u>			
Presence of Seepage: <input type="checkbox"/>		Presence of Iron Precipitates: <input type="checkbox"/>		Species (dominant species <sup>1</sup> , secondary species <sup>2</sup> , present species <sup>3</sup> )			
Forms % (Circle those ≥25%)		<u>Acet fr, ulmus</u>					
ts							
is							
gc							
ne							
be							
re							
ff							
su							
m							
Rare Species (Local, Regional, Provincial):				Wildlife Notes:			

Field No: <u>52</u>		Wetland Type: <u>Swamp</u>		Site Type: <u>h</u>		Dominant Form: <u>h</u>	
% Open Water: <u>10</u>		Water Depth (cm): <u>10-20</u>		Depth of Organics (cm): <u>&gt;30</u>			
Soil: A <u>0%</u>		Depth to Mottles (cm): <u>—</u>		Gley (cm): <u>—</u>			
B <u>—</u>		Depth to Mottles (cm): <u>—</u>		Gley (cm): <u>—</u>			
Presence of Seepage: <input type="checkbox"/>		Presence of Iron Precipitates: <input type="checkbox"/>		Species (dominant species <sup>1</sup> , secondary species <sup>2</sup> , present species <sup>3</sup> )			
Forms % (Circle those ≥25%)		<u>Acet fr, ulmus, populus</u>					
ts							
is							
gc							
ne							
be							
re							
ff							
su							
m							
Rare Species (Local, Regional, Provincial):				Wildlife Notes:			



Site: NAF120 - Leyalish Observer (s): JWH Date: June 14/2016

Field No: M1 Wetland Type: Marsh Site Type: I Dominant Form: NC

% Open Water: — Soil: A — B —

Depth to Mottles (cm): — Gley (cm): —

Depth to Mottles (cm): — Gley (cm): —

Water Depth (cm): — Depth of Organics (cm): —

Presence of Seepage: ☐ Species: — (dominant species<sup>2</sup>, secondary species<sup>3</sup>, present species<sup>4</sup>)

Forms % (Circle those ≥25%) —

dc, dh, ds Salix sp.

gc Platanus

re —

ff —

ft —

su —

m —

Rare Species (Local, Regional, Provincial): dry - no ponded water

Wildlife Notes: —

Field No: 54 Wetland Type: Swamp Site Type: P Dominant Form: TS

% Open Water: — Soil: A 51CL B —

Depth to Mottles (cm): — Gley (cm): —

Depth to Mottles (cm): 220 Gley (cm): 999

Water Depth (cm): — Depth of Organics (cm): 1cm

Presence of Seepage: ☐ Species: — (dominant species<sup>2</sup>, secondary species<sup>3</sup>, present species<sup>4</sup>)

Forms % (Circle those ≥25%) —

dc, dh, ds Salix

gc —

re —

ff —

ft —

su —

m —

Rare Species (Local, Regional, Provincial): —

Wildlife Notes: —

Wetland Notes: Wetland / dry field & more water SWD by the south



Ministry of Natural Resources and Forestry  
Make-a-Map: Natural Heritage Areas

PIN451400097 - NAP160

Notes:  
Enter map notes

Asl SWDM  
Dry Creek



Legend  
Asl SWDM

- Assessment Parcel
- Wetland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecotone
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Wetland Evaluated
- Un-evaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science Area (PLSA)
- Provincially Significant Earth Science Area (ESA)
- Greenbelt Plan
- Boundary
- Recreation Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Occupies
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Urban Area
- Urban Area
- More Urban Center
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Landscape Area
- Quintessential Area
- Rural Settlement
- Palimpsest Escapes
- Neighborhood Community
- Settlement Area

0 0.2 km

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ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: 147160 - Loyalist	POLYGON: S/M
	SURVEYOR(S): Jonathan Harris	TIME: start 14:50 finish 15:36
	UTMZ:	UTM: 156416

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND TERRACE		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G VALLEY SLOPE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G TABLELAND		G FORB	G MARSH
	G CARB. BEDRK.	G ROLL. UPLAND		G LICHEN	G SWAMP
		G CLIFF		G BRYOPHYTE	G FEN
		G TALUS		G DECIDUOUS	G BOG
		G CREVICE / CAVE		G CONIFEROUS	G BARREN
		G ALVAR	COVER	G MIXED	G MEADOW
SITE		G ROCKLAND			G PRAIRIE
G OPEN WATER		G BEACH / BAR	G OPEN		G THicket
G SHALLOW WATER		G SAND DUNE	G SHRUB		G SAVANNAH
G SURFICIAL DEP.		G BLUFF	G REED		G WOODLAND
G BEDROCK					G FOREST
					G 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	CANOPY	2.5m	84	<i>Frax nig</i> > <i>Frax pen</i>
2	SUB-CANOPY	2	3	<i>Frax nig</i>
3	UNDERSTOREY	1		—
4	GRD. LAYER	4-7	6	<i>phalaris</i>

HT CODES: 1 = <2.5 m 2 = 10<HT<25 m 3 = 24<HT<10 m 4 = 14<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR 25% 3= 25 < CVR < 60% 4= CVR > 60%

**STAND COMPOSITION:**

STAND COMPOSITION:		BA:	
SIZE CLASS ANALYSIS:			
	< 10	10 - 24	25 - 50
	✓	0	✓
STANDING SNAGS:			
	< 10	10 - 24	25 - 50
	✓	✓	✓
DEADFALL / LOGS:			
	< 10	10 - 24	25 - 50
	✓	✓	✓
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT			
COMM. AGE :	PIONEER	YOUNG	MID-AGE
			MATURE
			OLD GROWTH

SOIL ANALYSIS:

TEXTURE: <i>silt</i>	DEPTH TO MOTTLES / GL <sub>Ë</sub> Y	g = <i>18</i>	G= <i>18</i>
MOISTURE: <i>6</i>	DEPTH OF ORGANICS:	<i>2</i>	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	<i>40.9</i>	(cm)

**COMMUNITY CLASSIFICATION:**

					ECS CODE
COMMUNITY CLASS:					
COMMUNITY SERIES:					
ECOSITE:					
VEGETATION TYPE:					SWMZ-1
INCLUSION					MtM-1-3
COMPLEX					

Notes:

<div> <div>ELC</div> <div>STAND CHARACTERISTICS</div> </div>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

**TREE TALLY BY SPECIES:**

[illegible]

**STAND COMPOSITION:**

\_\_\_\_\_

## COMMUNITY PROFILE DIAGRAM

Green/Black Ash Deciduous Swamp Plant Floods Surrounding an Inclusion of MAMM-3

**Notes:**











ELC		SITE:	
SOILS ONTARIO		POLYGON:	
		DATE:	
		SURVEYOR(S):	

Slope		UTM	
P/A	PP	Dr	Position
1	P	P	6
2			
3			
4			
5			

Slope		UTM	
Aspect	%	Type	Class
S		Simple	A

Slope		UTM	
Aspect	%	Type	Class
S		Simple	A

Slope		UTM	
Aspect	%	Type	Class
S		Simple	A

Slope		UTM	
Aspect	%	Type	Class
S		Simple	A

ELC		SITE:	
PLANT SPECIES LIST		POLYGON:	
		DATE:	
		SURVEYOR(S):	

Slope		UTM	
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Slope		UTM	
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## NAP493

**Notes:**  
Enter map notes



### Legend

- Abundant Forest
- Woodland
- Conservation Reserve
- Provincial Park
- Heritage System
- Ecological
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Unallocated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science Area
- Provincially Significant Earth Science Area
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Heritage
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Municipal Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Urban City Area
- Rural Usage Area
- Countryside Area
- Rural Settlement
- Rural Land Use
- Rural Community
- Settlement Area

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Projection: Web Mercator



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**NAP492 middle2**

**Notes:**

Enter map notes



### Legend

- 
- Legend:**
- Assessment Parcel
  - Wetland
  - Conservation Reserve
  - Practical Park
  - Island Heritage System
  - Ecoregion
  - Provincially Significant
  - Nationally Significant
  - Wildland Evaluation
  - Unimproved Wetland
  - Area of Natural Heritage & Scientific Interest
  - Provincially Significant
  - Life Source Atlas
  - Promotively Significant
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  - Boundary
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  - Land Use Designations
  - Protected Countryside
  - Towns and Villages
  - Hamlets
  - Urban River Valley
  - Specialty Crop Area
  - Nigam Escarpment Plan (NEP)**
  - Boundary
  - Parks and Open Space System
  - Land Use Designations
  - Escarpment Natural Area
  - Escarpment Protection Area
  - Escarpment Rural Area
  - Mineral Resource Extraction Area
  - Escarpment Recreation Area
  - Urban Area
  - Major Urban Centre
  - Oak Ridge Marine Conservation Plan (ORM)**
  - Boundary
  - Land Use Designations
  - Natural Core Area
  - Natural Ledge Area
  - Countryside Area
  - Rural Settlement
  - Palgrave Estates Residential Community
  - Soliholme Area



Projection: Web Mercator



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ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: NAP 492		POLYGON: 53	
	SURVEYOR(S): JWH		DATE: 10/10/16	
UTWZ:	UTME:		TIME: start finish	14:00 14:45
UTMN:				

POLYGON DESCRIPTION		SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
SYSTEM	G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL G CULTURAL	G PLANKTON	G LAKE
	G WETLAND	G MINERAL SOIL	G RIVERINE		G SUBMERGED	G POND
	G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
		G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
SITE		G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
		G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
			G ROLL UPLAND		G VERTICOPHYTE	G FEN
			G FLATS		G GLOBOSUS	G BARN
SITE			G CREVICE / CAVE	COVER	G OPEN	G MEADOW
			G ALVAR		G PRAIRIE	G THicket
			G ROCKLAND		G SAVANNAH	G WOODLAND
			G BEACH / BAR		G SHRUB	G FOREST
SITE			G SAND DUNE			
			G BLUFF	G REED		G PLANTATION
SITE	G OPEN WATER					
	G SHALLOW WATER					
SITE	G SURFICIAL DEP.					
	G BEDROCK					

STAND DESCRIPTION:			SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>= MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)	
LAYER	HT	CVR		
1 CANOPY	1	36	Populus	
2 SUB-CANOPY	2	3	Populus > Fraxinus sp. >> Ulmus	
3 UNDERSTOREY	3	2	Frax. pen	
4 GRD. LAYER				

HT CODES: 1 = <25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0 = NONE 1 = 0% < CVR ≤ 10% 2 = 10 < CVR ≤ 25% 3 = 25 < CVR ≤ 50% 4 = CVR > 60%

STAND COMPOSITION:	BA:
--------------------	-----

SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
	12	0	4	1

		< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:					
DEADFALL / LOGS:					

ABUNDANCE CODES:		N = NONE	R = RARE	Q = OCCASIONAL	A = ABUNDANT
COMM. AGE :		PIONEER	YOUNG	MID-AGE	MATURE
					OLD GROWTH

SOIL ANALYSIS:			
TEXTURE:	sic	DEPTH TO MOTTLES / GLEY	g = 8 G = 8
MOISTURE:	6	DEPTH OF ORGANICS:	(cm)
HOMOGENEOUS / VARIABLE		DEPTH TO BEDROCK:	(cm)

COMMUNITY CLASSIFICATION:		ELC CODE
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE:	Bayley Mineral Deciduous Swamp	SNDM 4-5
INCLUSION		
COMPLEX		

Notes:

<b>ELC</b>	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

**TREE TALLY BY SPECIES:**

[illegible]

**STAND COMPOSITION:**

## COMMUNITY PROFILE DIAGRAM

Notes:









## T-Line - Primary\_3

**Notes:**  
Enter map notes



### Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Unecavated Wetland
- Area of Natural Heritage & Scientific Interest (ANHSI)
- Provincially Significant Life Science ANSI
- Provincially Significant Earth Science ANSI
- Greenbelt Plan
- Boundary
- River Valley Connections
- Land Use Designations
- Protected Countryside
- Towns and Villages
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Extraction Area
- Escarpment Recreation Area
- Urban Area
- Minor Urban Centre
- Oak Ridgea Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linkage Area
- Countryside Area
- Rural Settlement
- Palgrave Estates
- Recreational Community
- Settlement Area

0 0.2 km



Projection: Web Mercator

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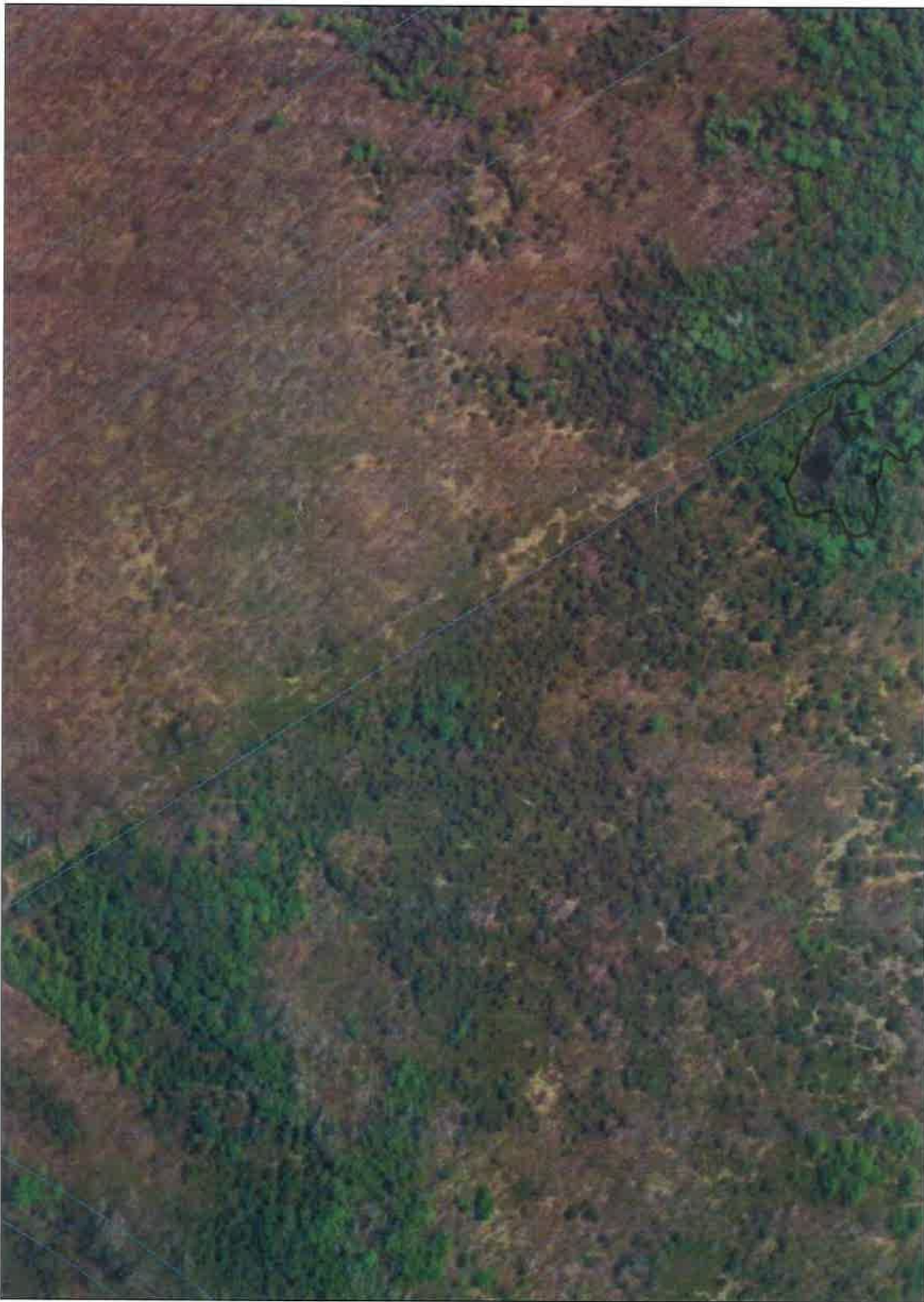






**Notes:**  
Enter map notes

Enter map notes



0.2 km

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### Existing Hydro Line\_Middle3

**Notes:**  
Enter map notes



0.2 km

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## Road Allowance\_cont.1

Notes:  
Enter map notes



### Legend

- Assessment Parcel
- Wetland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Unecoluted Wetland
- Area of Natural Heritage & Scientific Interest (ANHSSI)
- Provincially Significant Life Science ATSI
- Provincially Significant Earth Science ATSI
- Greenbelt Plan
- Boundary
- = River Valley Connections
- Land Use Designations
- Protected County Side
- Towns and Village
- Hamlets
- Urban River Valley
- Specialty Crop Area
- Niagara Escarpment Plan (NEP)
- Boundary
- Parks and Open Space System
- Land Use Designations
- Escarpment Natural Area
- Escarpment Protection Area
- Escarpment Rural Area
- Mineral Resource Estimation Area
- Escarpment Recreation Area
- Urban Area
- Mixed Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)
- Boundary
- Land Use Designations
- Natural Core Area
- Natural Linchpin Area
- Countryside Area
- Rural Settlement
- Palgrave Estates Residential Community
- Settlement Area

0 0.2 km



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ELC

TE: 7-11-16 Road Allman, C.

POLYGON: 5

COMMUNITY DESCRIPTION & CLASSIFICATION

SURVEYOR(S): J. W. H. H. H.

DATE: 2/10/16

UTM: 13:00

UTM: 13:00

UTM: 13:00

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL	<input checked="" type="checkbox"/> ORGANIC	<input checked="" type="checkbox"/> LACUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input checked="" type="checkbox"/> PLANKTON	<input checked="" type="checkbox"/> LAKE
<input checked="" type="checkbox"/> WETLAND	<input checked="" type="checkbox"/> MINERAL SOIL	<input checked="" type="checkbox"/> RIVERINE	<input checked="" type="checkbox"/> CULTURAL	<input checked="" type="checkbox"/> SUBMERGED	<input checked="" type="checkbox"/> POND
<input checked="" type="checkbox"/> AQUATIC	<input checked="" type="checkbox"/> PARENT MIN.	<input checked="" type="checkbox"/> TERRACE		<input checked="" type="checkbox"/> FLOATING LVD.	<input checked="" type="checkbox"/> RIVER
	<input checked="" type="checkbox"/> ACIDIC BEDK.	<input checked="" type="checkbox"/> VALLEY SLOPE		<input checked="" type="checkbox"/> GRAMINOID	<input checked="" type="checkbox"/> STREAM
	<input checked="" type="checkbox"/> BASIC BEDK.	<input checked="" type="checkbox"/> TABLELAND		<input checked="" type="checkbox"/> FORB	<input checked="" type="checkbox"/> MARSH
	<input checked="" type="checkbox"/> CARB. BEDK.	<input checked="" type="checkbox"/> ROLL UPLAND		<input checked="" type="checkbox"/> LICHEN	<input checked="" type="checkbox"/> SWAMP
		<input checked="" type="checkbox"/> CLIFF		<input checked="" type="checkbox"/> ERYOPHYTE	<input checked="" type="checkbox"/> FEN
		<input checked="" type="checkbox"/> TALLUS		<input checked="" type="checkbox"/> DECIDUOUS	<input checked="" type="checkbox"/> BOG
		<input checked="" type="checkbox"/> CREVICE / CAVE		<input checked="" type="checkbox"/> CONIFEROUS	<input checked="" type="checkbox"/> BARREN
		<input checked="" type="checkbox"/> ALVAR		<input checked="" type="checkbox"/> MIXED	<input checked="" type="checkbox"/> MEADOW
		<input checked="" type="checkbox"/> ROCKLAND			<input checked="" type="checkbox"/> PRAIRIE
		<input checked="" type="checkbox"/> BEACH / BAR			<input checked="" type="checkbox"/> THICKET
		<input checked="" type="checkbox"/> SURFICIAL DEP.			<input checked="" type="checkbox"/> SAVANNAH
		<input checked="" type="checkbox"/> BLUFF			<input checked="" type="checkbox"/> WOODLAND
					<input checked="" type="checkbox"/> FOREST
					<input checked="" type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)
1 CANOPY	2	3	Acer fr = Populus = Fraxinus
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3 UNDERSTOREY	3	4	Canal
4 GRD. LAYER	5	2	Carex sp = Sphagnum sp.

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STAND COMPOSITION:

SIZE CLASS ANALYSIS:	L	< 10	10 - 24	25 - 50	N	> 50
STANDING SNAGS:						
DEADFALL / LOGS:						
ABUNDANCE CODES:	N = NONE	R = RARE	O = OCCASIONAL	A = ABUNDANT		

COMM. AGE :	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	ELC CODE
COMMUNITY SERIES:	
ECOSITE:	
VEGETATION TYPE:	Swamp maple forest
INCLUSION	Acidic swamp
COMPLEX	SWDM 3-3

Notes:

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INCLUSION	Acidic swamp
COMPLEX	SWDM 3-3

Notes:







Location Robin / Loyalist / up Date May 17, 2016 103  
Project / Client Dillon Co. (BlueEarth Solar)  
Alvar Assessment

08:00 Meet Jon Harris (Dillon) in  
Napier. (647-962-7401)

SITE 1: Across from 721 Centreville Rd.  
Farm access lane.

SITE 2 Across - quarry pit  
access road bottom of hill  
North side of road. green gate

SITE 3 1151 Birch Rd. (south end)  
→ farm

Note: lots of early saxifrage &  
*Antennaria neglecta* everywhere.

\* NAO23 → open alvar area + many  
columbine in bloom. lg patches  
of *Oxum triflorum*  
*Antennaria neglecta* & *neglecta*  
*Cardus Crispus* & common throughout

NAO21 → just W. of 804 Birch Rd.  
HAYFIELD on west

Project / Client

NA035 - just down Birch Rd from  
NA020 → green fern gale  
on south side, → cedar rail  
fence on north side

MAY 20/2016 BlueEarth Loyalist

→ SITE QUARRY ALVAR N. of Centerville Rd  
TIME: 08:00. - Mapping assessment

→ ~~ENTIRE~~ Red Cedar area N. of active  
quarry is treed alvar → densely treed  
on east side but open limestone  
throughout

→ check density of treed alvar.  
→ TRANSMISSION LINE IS EAST PROP. Boundary

<sup>PHOTO</sup>  
SITE 2: OPEN ALVAR EAST OF QUARRY.  
WEST SIDE RD, RAIL & CEDAR FENCE  
OPEN ALVAR: mainly Pin, C. glauca.  
ANTENNARIA + mostly wet meadow alvar.  
pastured area → not much open  
bedrock → open limestone on adjacent  
prop. (photo)

Project / Client

\*Eleocharis compressa common  
NOTE: A01 area marked is pastured  
alvar (just south of cedar fence)

A0-C01 cultural alvar. (photo)  
ALV4 NO → excellent alvar woodland.  
(photo)

A5 - Blowing patchy alvar along  
east side, + denser juniper  
woodland to west.  
Rail fence → cedar in woodland  
NOT ALVAR

→ return to Centerville Rd.  
pastures along road variable with  
some alvar meadow + wet  
alvar → some indicators  
+ much of property is alvar  
cultural + alvar woodland.  
some cedar woods.

SITE 3. →

Location Loyalist Solar Date June 9/16<sup>107</sup>  
Project / Client BlueEarth/Dillon  
Time 0800 Temp 11°C

Wind, moderate North West

### VEGETATION SURVEYS

→ site 1 NAP 013

A Comm type Red cedar / Poa cane  
Wetland  
photo 1

- Timothy, Tart, Honeysuckle, Birch, Frag. Virg,  
Vio. crac, Yarrow, Co. milkw, Daisy, Pot. recta, Danc. carota,  
Poa prat, Trif. vulg, Goutweed, Ulmus, Satureja vulg,  
Buckthorn, Hier. florib., Ribes cynos, Tarax. off, Aster cord,  
Co. juniper, Cladonia, NE Aster, Fox Poison Ivy, Sedum acre,  
Ribes sp., Hawthorn sp. Rubus idaeus, Ranunc. fasci.,  
Heal-all, St. Johnswort, Panicum sp., Prickly Ash, Chokeberry  
White Cedar, Dog strangling vine (few) 718 T 0343105  
Geum alepicum, Bromus Bl. cherry 4914760

B Comm type Grassland Alvar / Pea  
photo 2 Exposed Bedrock

- wild grape, Birch, Co. milkw, Timothy, Red cedar  
Vio. crac, Yarrow, Danc. carota, Sedum acre, Frag. Virg,  
Buckthorn, Chokeberry, Silky dogwood, Poison Ivy,  
White ash, Carex brevior, Trag. duba, Daisy, Poptem  
Agrimony, Salix pet. ~~A~~ Elecampane, Rumex crispis  
Virginia creeper, NE Aster, Grass sp. ? Euthymia gram.

Carex granularis few specimens throughout Carex flara,  
Solidago acuta, Antennaria neglecta, Yellow sweetclover,  
Pot. recta, Rosa blanda, Climbing bitter sweet, Stag-somuch

photo 3 - open alvar



108 Location \_\_\_\_\_ Date \_\_\_\_\_  
Project / Client \_\_\_\_\_

- co. mullein, Tart honeysuckle, *Rubus idaeus*,  
Co. juniper, ~~Pot~~ *Hieracium prat.*, *Echium vulg.*, St. Johnswort  
*Cyperus*  
*Bromus inermis*, Indian hemp, Buffalo berry, *Scirpus* ~~capillaris~~  
Balsam ragwort, (*Eleocharis comp.*), Blue-eyed grass (*S. montana*)  
*Carex pallescens* ↑ *Juncus dudleyi*  
Boneset 18 T 0343163 (woodland periphery north side)  
4914900

Bullthistle Jaegerweed

→ Alvar indicators present but in small #  
→ BF Trefoil is dominant invasive  
→ otherwise excellent alvar rep.

Site 2 NAP 011 (photo 4)

Grass dominated open alvar / pastured

- poa, red cedar, *Echium*, Daisy, Bullthistle  
*Sedum acra*, Yarrow, red clover, Smooth gooseberry  
St. Johnswort (18 T 0342772) Mullein, Co. juniper,  
Heal-All, *Pot. simplex* 4914526 *Antennaria neglecta*,  
Prickly Ash, *Oxyc. cordata*, Tart honeysuckle, Buckthorn  
*Hieracium florib.*, *Ranunculus acris*, *Hieracium pilosella*,  
Stitchwort *Carex pallescens*, *Carex flava*, Black medick  
*Vicia craca*, *Pot. recta*, *Solidago canadensis*, Tart honeysuckle  
along fenceline, Fescue, Field peppergrass, Slippery Elm  
Poison Ivy, Wild grape, *Aralia nud.*, Virginia creeper  
Goatsbeard *Hieracium prat.*, *Rubus idaeus*, *Euthamia* gram  
(photo 5) 18 T 0342676 (Woodland alvar)  
4914350  
E. An. *Cornus foemina* Chokecherry White birch

Location \_\_\_\_\_ Date \_\_\_\_\_  
Project / Client \_\_\_\_\_

- Climbing butterwort, Herb robert  
purple flowering raspberry, Staghorn sumac  
*panicum* sp., *Taraxacum* off. *Carex penn.*  
Pasture rose ~~Carex~~ ~~dur~~, King devil!  
*Aster cordifolia*, *Carex vulp.*, *Carex brevifl.*  
*Carex granularis*, *Eleocharis* *Hyac. prae*  
along fenceline

Site 3 NAP 118 Red Cedar Poa  
Woodland Alva

- pastured - Daisy, *Solidago can* *Tar*  
*Fescue*, Red Clover, *Echium vulgare*, *Pot.*  
Bullthistle, *Pot. recta*, *Ranunc. acris*  
Chokecherry (photo 6) *Stitchwort*.  
prickly ash *Hieracium pilosella*, *H. florib.*  
NE. aster, *Vicia craca*, *H. dorant.*, Frag  
Field pussytoes, St. Johnswort *Carex*  
Timothy, Yarrow, Slippery Elm, P.O. dogwood  
Mullein, Curly dock, Heal-All *Rubus id.*  
Honeyuckle scattered throughout  
- site in poor condition due to cattle  
*Geum triflorum*, Goatsbeard, Buckthorn  
*Carex gracillima*, *Erigeron phil.*  
Virg. creeper, *Ranunculus acris*, *Spiraea* al  
*Crataegus crus-galli*

Site 4 NAP 023  
A Red Cedar Poa Woodland  
Smooth honeyuckle, Orchard Grass



Project / Client

- Daisy, poison ivy, plantain, H. florib.,  
H. pilosella, Birdfoot trefoil, Sol. can.,  
Vine creeper, Pot. recta, white oak, green ash,  
Buckthorn, Wild grape, Co. Juniper, Timothy,  
Carex brevior, red clover, bullthistle, Blueweed,  
Rubus idaeus, Field peppergrass  
quite degraded S. montanum, alfalfa  
(photo 7) 18 T 0344876 Sugar Maple  
4912811

Carex granularis, Columbine, Wild basil,  
B - ~~Red~~ Red Cedar, Poa, Open grassland Alvar  
- mullein, Yarrow, Daisy, Bullthistle,  
Aquilegia, Honeysuckle (throughout), Timothy,  
Daucus carota, red clover, H. florib., Sol. can.,  
(photo 8) 18 T 0344951 Pot. simplex  
4912911 Early buttercup

Field peppergrass  
Carex brevior, Geum triflorum, Juncus sp.,  
Black medick, Carex palescens, Frag. virginica,  
Juncus dudleyi, Antennaria, Carex granularis  
Curly dock, S. montanum, Alsike clover  
Heat-All, Scirpus cyperinus NE. aster,  
Scirpus atrovirens, Yellow sweet clover, Nannyberry  
Buckthorn and Honeysuckle throughout  
Chokecherry (Fragrant Sumac) 18 T 0344929  
4913005

Hairy beardtongue Co. milkw  
(photo 9)  
(photo 43948) dense prairie smoke (field)  
H. aurentianicum

Site 5 NAP 013 NE corner  
very small Woodland Alvar on, exposed  
limestone (bedrock)

photo 43945  
- mix of dead and trees and shrubs  
Buckthorn (prevalent) Stag sum., Basswood,  
Elm, Prickly Ash, Sedum acre, Poa,  
Wild Grape, Vicia cracca, Pot. recta,  
Poison Ivy, Honey  
Black Medick, Field Bindweed, Chokecherry  
Herbert (Rock barren?) Daucus carota  
Goatsbeard, Sugar Maple, Co. Juniper,  
Rubus idaeus Dog strangling vine (poa)  
Birdfoot trefoil, Smooth gooseberry, Mol.  
Vine creeper Timothy Co. milkw.

Site 6 NAP 012 Open Rock b

- poa, Sedum acre, red cedar,  
Honeysuckle Basswood, Buckthorn  
Chokecherry Photo 43944 Vine creeper  
Slender Nettle Co. milkw. Arabis gl.  
Slender Ranunculus acris Black Med.  
Mullein. False pennyroyal Evening Night  
H. florib. Rubus idaeus Virg. Goatsb.  
Dogwood. Daucus carota

Site 7 NAP 021 South Grassland  
Poa / Red Cedar Alvar



112

Location \_\_\_\_\_

Date \_\_\_\_\_

Project / Client \_\_\_\_\_

- ~~Granular~~ Sedum acra, Curly dock, Fescue  
Sedge, Co. Milkweed, Yarrow,  
Daucus Carota, Bromus, Pot recta,  
Pop tremb, Carex vulp., Yellow sweetclover  
Buck thorn, Virg. creeper prickly ash  
photo 43942 Grey dogwood Wild grape  
Vicia craca Shiny Sumac Alnus  
Carex brevior H. florib, Birdsfoot tree,  
NE aster R.O. dogwood Salix pet.  
St. Johnswort, Bonaset

Site 8 NAP 021 North East

Red Cedar, Poor Woodland Photo 43941

- transitional alvar, species mix similar  
to site 7. Apple tree

Site 9 NAP 021 North West

photo 43939 Same as above  
blue eyed grass, balsam ragwort

Site 10 NAP 038 Red Cedar Poor  
Woodland Alvar

- Birdsfoot tree, Co. Milkweed, Yarrow,  
Daucus carota, Rubus idaeus, Daisy

Location \_\_\_\_\_

Date \_\_\_\_\_

Project / Client \_\_\_\_\_

- chokecherry alfalfa, wild pars  
buckthorn, Goatsbeard, Timothy  
H. florib., red clover, vicia craca  
Pot recta, Basswood, Mullein  
Wild grape, Sol. can., Fescue  
photo 43937 White ash, Virg. creeper  
Gallium. mollugo  
- transitional alvar a few grykes  
plantago lanceolata through  
- King devil Smooth gooseberry

Quarry Alvar

0800

clear 16°C no wind June 15/16

Red Cedar Poor/woodland

- Daisy, P. florib, red clover, St. Johnswort  
Reindeer moss, Medick, Stellaria, Fig. vine  
Antennaria, Pot. simplex, Daucus c., Eupium,  
Rubus idaeus, Vitis, Mullein, Co. Milkw,  
Panicum sp., Yarrow, Danthonia, Bromus  
Carex sp. Ranunculus acris, Lady fern,  
Vicia craca, Poison Ivy, Goatsbeard, Erigeron  
Chokecherry, Solidago nemoralis, Taraxacum  
Wild basil, Symp. cord., Buckthorn, Smooth go  
Sclastrus scabris, Heal-All, Veronica offic.



114	Location _____	Date _____
	Project / Client _____	
- NE aster, Sheep sorrel, White ash, Elm Honey suckle, Ribes cynosb., Sugar Maple, Bur Oak, Ironwood, Prickly Ash,		
(Spike-rush)		
Site 2A NAP492 Open Grass Alvar		
- early buttercup, <u>Juncus dudleyi</u> , Heal-All, Carex palescens, <u>Eliocaris compressa</u> , S. montanum Solymenalis, Dandelion, Broomrape, White clover, P. florib., Antennaria, Red Cedar, NE aster Daucus, Yarrow, Wild grape, Erigeron annuus Carex vulp., Scirpus atrovirens, Slippery Elm, Lycopus americanus, Galium boreal, <u>Salix bebbiana</u> Indian Hemp, Panicum philadelphicum, Daisy, White Spurge, White cedar		
photo 43944 Frag. virg, Silky dogwood Buckthorn (few), <u>Salix pet.</u> , <u>Poa glyceria</u> sp. timothy, Carex granularis, Euthamia Bull thistle, Carex aurea, <u>Carex crassicaulis</u> , Carex brevior, Pil. aur. No sign of recent pasturing		
18T0343857 Carex flava Joe Pye Weed 4910426 white Ash, St. Johnswort		
Carex hystericina, <u>Poa compressa</u> , Carex interior Vicia cracca white cedar saplings scattered Thymus sal. (scattered/not invading)		
	Location _____	Date _____
	Project / Client _____	
- Balsam ragwort, Equisetum arvense Spiraea alba, Shrubby Cinnafoil water Spurge Mud Plantain, Pop trem., Pilosella praelatum, Carex gracillima, Curly dock Some evidence of cattle in the southeast corner		
Site 2 B Cultural Alvar Red Cedar Po heavily pastured		
- plantain, daisy, orchard grass, Rubus idaeus Heal-All, Pot simplex, Daucus, Prickly Ash Echium, Medick, Red Clover, Grape, Sol. can., Can. Thistle, Yarrow, Curly dock Bull Thistle, Mullein, Slippery Elm, Apple Antennaria, Ironwood, Black Cherry Poison Ivy, Buckthorn, H. pilosella Scirpus cyperinus, Eleocharis, Danthonia Euthamia Vicia cracca, Bird's-foot Trefoil,		
Site 3 NAP493A Small pastured Wood Alvar near road.		
- white ash, prickly ash, red cedar, P Yarrow Bull Thistle, Broomrape, Slippery Elm, Field peppergrass, White Clover, Red Clover, Mullein, Curly dock Echium, Daisy, Medick Mouse-ear		

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Location \_\_\_\_\_

Date \_\_\_\_\_

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Site 4 NAP493B Northeast Red Cedar <sup>Woodland Alvar</sup>  
 - medick, Pot simp., Daisy, Mase ear, Heal-All,  
 Sugar Maple, Buckthorn, Prickly Ash, Rubus idaeus  
 Carex pollescens, Carex grac., Sol. can., Ribes sp.  
 St. Johnswort, P. florib., Mullein, Sol. juncea,  
 Sym. cord., Ranunculus acris, Yarrow, Daucus,  
 Asparagus, Red clover, Erigeron phil.  
 Antennaria, - heavily pastured, <sup>DICENTEL L.</sup> Panicum sp.  
 Yellow sweetclover, Elm, Carex gran.  
 Scirpus syp., Carex pen., Wild grape  
 Sol. caes., photo 43296 Balsam ragwort  
 Timothy, Juncos dudley, Eleo comp.

Site 5 NAP493C Southeast  
 Small patch Grassland Alvar

Poa Red Cedar  
 Silene Crinifolia, Bull Thistle Daisy,  
 NL. plantain, Ranthoria, Ranunculus, Yarrow  
 Pot. simplex, Nettle, Carex brevior, Peppergass  
 Prickly Ash, Juncos dudley, Carex vulp., Curly dock

Site 6 Hell holes road West Trans Line  
 - Juniper Woodland  
 poa penn., dense common Juniper King devil

Location \_\_\_\_\_

Date \_\_\_\_\_

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- gaultheria, Not Alvar

Site 7 Hell hole road Northeast  
 Dense Red Cedar <sup>Juncea</sup> Juniper <sup>Alvar</sup>

- carex penn., Sol. sp. P. florib., Prism.  
 poa, Frag. virg., Erigeron sp., Antennaria  
 Chokecherry Buckthorn S. montanum,  
 Daisy Viola craca, Pop trem, Panicum  
 Dogbane, White Ash, Red Oak,  
 H. pilosella, Reindeer moss, Wild grape  
 prickly ash, Ranunculus, Red clover

Site 8 Hell hole road Southeast  
 Same as site 7

- Carex gran., Yarrow, Daucus,  
 early buttercup. Sol can (lots.)  
 Canada anemone Crat. crus-galli  
 Carex grac., Rough avena Equis. or  
 Spirea alba, R. dogwood Carex arcta  
 Carex flava, Wild mint, Heal-All,  
 Virg. creeper, White pine



Location Loyalist Solar Date June 21/2016<sup>123</sup>  
 Project / Client 07:30  
16°C Light West Wind 30% cc.

NAP 013 North Rock Barrens  
 Pathy Red Cedar / Pon. Alvar  
 OPEN Grassland Alvar  
 → exposed bedrock white cedar  
 Yarrow, Melick, Pithumia, Sol can.  
 Buckhorn, Milkweed, Dandelion, C. bobbii  
 C. brevis, B.F. Trefoil, R.O. Dogwoods  
 Vicia cracca, Quackgrass, Phlox,  
 Silky Dogwood, Junco dudleyi  
 Sedum acre, Milkweed, Cornus pauciflora,  
 C. juniper, Pot. nor., Pot. recta,  
 Basswood, Daisy, Ch. Cherry, Spirea alba,  
 Viny. Creeper, Echinoc, P.v. primrose  
 Rubus idaeus, Tart. honey-suckle, Bromus in.  
 Parnassia, Rubus cuneifolius, Sheep sorrel,  
 Tansy, Pile. prostrata, Cerge, Sugar Maple,  
 Sambucus rac., Tigrax, old. ~~Rhus glabra~~  
 Rhus typhina, Galium boreale Frag. virg.  
 Gallium mollugo, C. blanda,  
 Sol. juncea Prickly Ash, Poison Ivy  
 \* exposed bedrock patches but  
 few alvar spp. → Rock Barrens

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NAP 263 → cedar / sumac / pot  
 wood / shrubland - ~~not on~~ limestone  
 exposed  
 + mixed hardwoods, Cereus for.  
 daisy, Anemone cyl., sumac, Pil. Dorb.  
 Sol. can, Vicia cracca, Poa. comp.  
 Poa prat., Frag. virg., Pot. simplex,  
 M. Bw., St. John's Wort, Dandelion  
 An. On, Pringlea, Sol. juncea, Knapweed  
 P.v. primrose, Echinoc, Tansy,  
 Red Clay, C. bobbii, R. idaeus  
No alvar indicators present  
 small patch of white cedar g.  
 limestone escarpment → no alvar  
 indicators.