

 436000
 437000
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440000

441000

Figure 5



| 4772000

4771000

Bornish Wind Energy Centre Significant Natural Features - Southwest

Legend

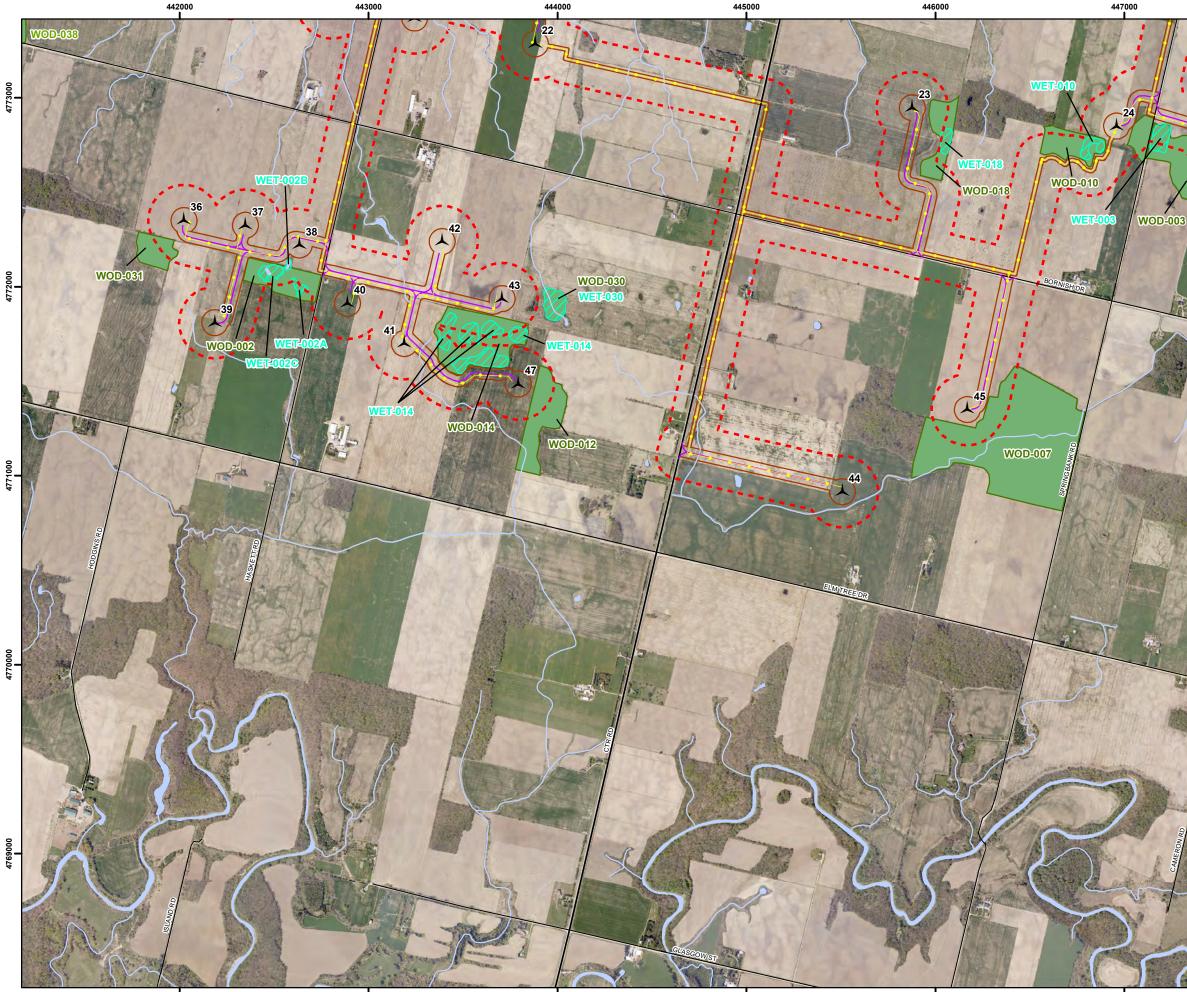
- Project Area (120m) Project Location ★ Turbine Access Road Transmission Line Collector System Staging Area Interconnection Facilities Substation • Existing Transmission Line Primary Road Secondary Road ---- Railroad Intermittent Watercourse Permanent Watercourse S Waterbody Valleyland (VAL)
- Wetland (WET)
- Woodland (WOD)



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	quatic, Terrestrial and	SOURCE SOLUTIONS	INC.
confidential a express writt	and must not be duplicated	lutions Inc. This map is proprietary and d or distributed by any means without burce: Data provided by MNR. Airphotos: SWOOP 2006	
	Project: 1231 February 24, 2012	NAD83 - UTM Zone 17 Scale: 1:20,000 (11x17")] N

200 400 600 800 1,000 Metres



444000

446000

Figure 6

Bornish Wind Energy Centre Significant 4773000 Natural Features - Southeast Legend Project Area (120m) Project Location ★ Turbine Access Road Transmission Line Collector System Staging Area Interconnection Facilities Substation • Existing Transmission Line Primary Road Secondary Road ---- Railroad Intermittent Watercourse 4771000 Permanent Watercourse S Waterbody Valleyland (VAL) Wetland (WET) Woodland (WOD) 8 Aquatic, Terrestrial and Wetland Biologists

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Project: 1231 Date: February 24,

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451000

452000

453000

Figure 7

Bornish Wind Energy Centre Significant Natural Features - T-Line

Legend

4776000

4775000

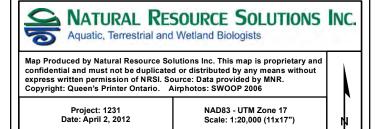
4774000

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7730

Project Area (120m) Project Location ★ Turbine Access Road Transmission Line Collector System Staging Area Interconnection Facilities Substation • Existing Transmission Line ----- Primary Road Secondary Road ---- Railroad Intermittent Watercourse Permanent Watercourse S Waterbody Valleyland (VAL) Wetland (WET)

Woodland (WOD)



200 400 600 800 1,000 Metres

0

Feature ID	Size (ha)	Composition	Distance to Project Location (m)	Woodland Size (>4ha)	EOS Criteria Satisfied	Uncommon Characteristics	Significant	Figure	EIS Required (Y/N)
WOD-001 Woodland	2.1	FODM5-6	WT - >120 AR - >120 OL - 30 UL - 5 SI - >120	No	Woodland diversity	None	Yes	3	Yes
WOD-002 Woodland	4.6	WODM5-2	WT – 78 AR – 6 OL – 29 UL – 6 SI – >120	Yes	Water protection	None	Yes	6	Yes
WOD-003 Woodland	15.1	WODM4-3	WT – 42 AR – 6 OL – 7 UL – 6 SI – >120	Yes	Interior habitatWoodland diversity	None	Yes	4,6,7	Yes
WOD-004 Woodland	15.6	WODM4-3	WT - 56 AR - >0.1 OL - 23 UL - >0.1 SI - >120	Yes	 Interior habitat Water protection Woodland diversity 	None	Yes	3	Yes
WOD-006 Woodland	38.9	FODM5-6	WT – 93 AR – 4 OL – >120 UL – Overlapping SI – >120	Yes	 Interior habitat Water protection Woodland diversity 	None	Yes	3,5	Yes
WOD-007 Woodland	37.2	FODM4-2	WT – 49 AR – 5 OL – >120 UL – 5 SI – >120	Yes	Interior habitatWater protection	None	Yes	6	Yes

Table 10. Summary of Woodlands within the Bornish Wind Energy Centre Project Area

Feature ID	Size (ha)	Composition	Distance to Project Location (m)	Woodland Size (>4ha)	EOS Criteria Satisfied	Uncommon Characteristics	Significant	Figure	EIS Required (Y/N)
WOD-008 Woodland	30.6	FODM5-8	WT – 44 AR – 7 OL – >120 UL – Overlapping SI – >120	Yes	 Interior habitat Proximity to other significant woodlands (WOD 027) Water protection Woodland diversity 	None	Yes	4	Yes
WOD-009 Woodland	11.0	FODM5-8	WT – 42 AR – 92 OL – >120 UL – 4 SI – >120	Yes	Interior habitatWoodland diversity	None	Yes	3,4	Yes
WOD-010 Woodland	4.3	WODM4-2	WT – 55 AR – 105 OL – >120 UL – >0.1 SI – >120	Yes	None	None	Yes	4,6	Yes
WOD- 012/WOD 021 Woodland	5.8	WODM4-3	WT – 47 AR – 92 OL – >120 UL – 92 SI – >120	Yes	Woodland diversity	None	Yes	11	Yes
WOD-013 Woodland	10.4	WODM4-3	WT - >120 AR - >120 OL - 28 UL - >120 SI - >120	Yes	Water protectionWoodland diversity	None	Yes	3	Yes
WOD-014 Woodland	11.7	FODM7-1	WT – 57 AR – >0.1 OL – >120 UL – >0.1 SI – >120	Yes	 Interior habitat Water protection Woodland diversity 	• Woodland value	Yes	6	Yes
WOD-015 Woodland	<1	FODM4-2	WT – 76 AR – 5 OL – >120 UL – 5	No	None	None	No	N/A	No

Feature ID	Size (ha)	Composition	Distance to Project Location (m)	Woodland Size (>4ha)	EOS Criteria Satisfied	Uncommon Characteristics	Significant	Figure	EIS Required (Y/N)
			SI – >120						
WOD-016	1.1	FODM4-2	WT – 48 AR – 0.4 OL – >120 UL – 0.4 SI – >120	No	None	None	No	N/A	No
WOD-018 Woodland	4.3	WODM4-3	WT – 40 AR – 7 OL – >120 UL – 7 SI – >120	Yes	Woodland diversity	None	Yes	4,6	Yes
WOD-020 Woodland	1.8	FOCM6-1	WT - >120 AR - >120 OL - >120 UL - 110 SI - >120	No	None	None	No	N/A	No
WOD-022 Woodland	18.2	FODM5-2	WT – 48 AR – 82 OL – >120 UL – 82 SI – >120	Yes	 Interior habitat Ũoodland diversity 	None	Yes	4,7	Yes
WOD-023 Woodland	4.3	FODM5-8	WT - 63 AR - 14 OL - 90 UL - 14 SI - >120	Yes	 Proximity to other significant woodland (WOD 024) Woodland diversity representation 	None	Yes	4,7	Yes
WOD-024 Woodland	21.0	FODM4-2	WT – 21 AR – 11 OL – 9 UL – 11 SI – >120	Yes	 Interior habitat Proximity to other significant woodland (WOD 023) 	None	Yes	4	Yes
WOD-025 Woodland	1.9	SWDM2-2	WT - >120 AR - >120 OL - 35 UL - >120 SI - >120	No	Water protection	None	Yes	3,4	Yes

Feature ID	Size (ha)	Composition	Distance to Project Location (m)	Woodland Size (>4ha)	EOS Criteria Satisfied	Uncommon Characteristics	Significant	Figure	EIS Required (Y/N)
WOD-027 Woodland	12.6	FODM4-2	WT - >120 AR - 6 OL - >120 UL - >120 SI - >120	Yes	Interior habitatWater protection	None	Yes	4	Yes
WOD-028 Woodland	3.7	FODM4-9	WT – 90 AR – 6 OL – >120 UL – 6 SI – >120	No	Woodland diversityWater protection	None	Yes	5	Yes
WOD-029 Woodland	6.1	WODM5-2	WT - 82 AR - 115 OL - >120 UL - 2 SI - >120	Yes	Water protection	None	Yes	3	Yes
WOD-030 Woodland	1.5	SWDM3-2	WT – 89 AR – 73 OL – >120 UL – 73 SI – >120	No	Water protectionWoodland diversity	None	Yes	6	Yes
WOD-031 Woodland	3.0	WODM3	WT – 70 AR – 64 OL – >120 UL – 64 SI – >120	No	Woodland diversity	None	Yes	5,6	Yes
WOD-038 Woodland	0.8	FOCM6	WT - >120 AR - >120 OL - >120 UL - >120 SI - 72	No	 Proximity to other significant woodland (WOD 039) 	None	Yes	3,5	Yes
WOD-039 Woodland	5.2	FOCM6	WT - >120 AR - >120 OL - >120 UL - >120 SI - 37	Yes	 Proximity to other significant woodland (WOD 038) 	None	Yes	3,5,6	Yes
WOD-045	10.6	FOCM6	WT->120	Yes	Interior habitat	None	Yes	7	Yes

Feature ID	Size (ha)	Composition	Distance to Project Location (m)	Woodland Size (>4ha)	EOS Criteria Satisfied	Uncommon Characteristics	Significant	Figure	EIS Required (Y/N)
Woodland			AR - >120 OL - 15 UL - >120 SI - >120						
WOD-046 Woodland	4.4	FODM5-6	WT - >120 AR - >120 OL - 12 UL - >120 SI - >120	Yes	Woodland diversity	None	Yes	4	Yes
WOD-047 Woodland	1.6	WODM5	WT - >120 AR - >120 OL - 20 UL - >120 SI - >120	No	 Proximity to other significant woodland (WOD 048) Water protection 	None	Yes	3,4	Yes
WOD-048 Woodland	119.5	WOMM3	WT - >120 AR - >120 OL - 5 UL - >120 SI - >120	Yes	 Interior habitat Proximity to other significant woodland (WOD 047) Water protection 	None	Yes	3	Yes
WOD-050 Woodland	3.0	FOCM6-1	WT - >120 AR - >120 OL - >120 UL ->120 SI - 3	No	None	None	No	N/A	No
WOD-051 Woodland	11.1	FODM5-5	WT - >120 AR - >120 OL - >120 UL - >120 SI - 51	Yes	Water protectionWoodland diversity	None	Yes	3	Yes
WOD-052 Woodland	25.0	FODM4-2	WT - >120 AR - >120 OL - >120 UL - >120 SI - 10	Yes	Interior habitat	None	Yes	7	Yes
WOD-053 Woodland	1.0	FOCM6	WT – >120 AR – >120	No	None	None	No	N/A	No

Feature ID	Size (ha)	Composition	Distance to Project Location (m)	Woodland Size (>4ha)	EOS Criteria Satisfied	Uncommon Characteristics	Significant	Figure	EIS Required (Y/N)
			OL – 20 UL – >120 SI – 15						

Legend WT: Wind Turbine

AR: Access Road

OL: Overhead Line

UL: Underground Line SI: Supporting Infrastructure

8.0 Wetlands

During detailed site investigations at the Bornish Wind Energy Centre, NRSI biologists identified a total of 10 candidate wetland habitats present within the project area. These wetlands do not overlap the project location; therefore, NRSI has implemented the alternative approach to a full wetland evaluation, consistent with Appendix C from the Natural Heritage Assessment Guide (OMNR 2011b), see Table 6. This approach assumes these wetlands are significant and requires appropriate mitigation measures as part of the Environmental Impact Study.

These wetland communities identified within the Bornish project area have been discussed below, with habitat characteristics and functions described in more detail in Table 11 below. Since these wetlands are being treated as significant, they have been mapped in Figures 3 to 7.

<u>WET-002 – Duckweed Floating-Leaved Shallow Aquatic Ecosites (SAF_1-3),</u> <u>Red Maple Mineral Deciduous Swamp (SWDM3-1)</u>

WOD-002 contains three wetland inclusions within the project area, including wetlands A and B, which are duckweed floating-leaved shallow aguatic ecosites (SAF_1-3) and wetland C, which is a red maple mineral deciduous swamp (SWDM3-1). Wetland A is 0.3ha shallow aguatic ecosite that mainly consists of open water, while dominate vegetation includes swamp beggar ticks (Bidens connata) and lesser duckweed (Lemna minor). This wetland is located 91m away from a proposed access road and underground cabling and will carry forward to the EIS. Wetland B is a 0.1ha shallow aquatic site that is mainly open water, with dominant vegetation including slender willow (Salix petiolaris), rice cut grass (Leersia oryzoides), cocklebur species (Xanthium sp.), lesser duckweed and green ash. Wetland B is located 12m from a proposed access road and underground cabling and will carry forward to the EIS. Wetland C is a 0.8ha mineral deciduous swamp that is dominated by red maple and contains green ash, maple species (Acer sp.) and cocklebur species. This wetland is located 24m from a proposed access road and underground cabling and will carry forward to the EIS.

<u>WET-003 – Silver Maple Mineral Deciduous Swamp (SWDH3-2)</u> This wetland is a 1.8ha swamp inclusion within WOD-003 that is dominated by silver maple and also contains green ash. Other vegetation includes Virginia creeper, sensitive fern and clearweed (*Pilea pumila*). This wetland is located 6m away from a proposed access road and underground cabling and will carry forward to the EIS.

<u>WET-008 – Green Ash Mineral Deciduous Swamp (SWDM2-2)</u> This 0.3ha swamp is an inclusion within WOD-008 that is dominated by green ash, silver maple and spicebush, while containing hop sedge. This wetland is located 92m from a proposed access road and will carry forward to the EIS.

WET-010- Green Ash Mineral Deciduous Swamp (SWDM2-2)

This wetland is a 0.7ha swamp inclusion found within WOD-010, which is dominated by green ash with Freeman's maple and silver maple. This wetland is located >0.1m from proposed underground cabling and will carry forward to the EIS.

WET-014 – Maple Mineral Deciduous Swamp (SWDM3)

This 3.0ha wetland is an inclusion within WOD-014 and is dominated by Freeman's maple, green ash and clearweed. This swamp also contains black huckleberry (*Gaylussacia baccata*), which is listed as very uncommon (occurs in 5-8 locations) in Middlesex County (Oldham 1993). This wetland is located 5m from a proposed access road and underground cabling and will carry forward to the EIS.

WET-018 – Silver Maple Mineral Deciduous Swamp (SWDM3-2)

This wetland is a 0.4ha marsh within WOD-018, which is dominated by silver maple with grass species, sedge species, hop sedge and Lady's thumb (*Polygonum persicaria*). This wetland is located 50m from a proposed access road and underground cabling and will carry forward to the EIS.

WET-025 - Green Ash Mineral Deciduous Swamp (SWDM2-2)

This 1.9ha swamp was surveyed from Coldstream Road, as property access was not granted. WOD-025 is dominated by green ash with trembling aspen, silver maple, willow species, common reed grass, goldenrod species, aster species and New England aster. This wetland is located 35m from proposed overhead cabling. This wetland is located 35m from overhead lines and will carry forward to the EIS.

WET-030 - Silver Maple Mineral Deciduous Swamp (SWDM3-2)

This 1.5ha swamp was surveyed from the property south of the community as access to this property was not granted. WOD-030 is dominated by silver maple, Freeman's maple, green ash, goldenrod species and common reed grass. This wetland is located 89m from proposed wind turbine #T43 and will carry forward to the EIS.

Feature ID	Size (ha)	Composition and Type	Distance to Project Location	Biological Characteristics (Dominate form in bold)	Hydrological Characteristics	Special Features	Significance	Figure	EIS Required (Y/N)
WET-002A Wetland	0.3	Open water SAF_1-3 Isolated	WT - >120 AR - 91 OL - 105 UL - 91 SI - >120	 h, ts, gc, ff 60m from Wetland B, 64m to Wetland C, all under same forested cover 20% open water 	 Water conveyance, attenuation and storage Water quality improvement: no evidence of discharge observed Groundwater recharge: isolated with clay soils 	 No rare species observed Within significant woodland No fish habitat 	Treat as Significant	6	Yes
WET-002B Wetland	0.1	Open water SAF_1- 3Palustrine	WT – 45 AR – 12 OL – >120 UL – 12 SI - >120	 h, ts, gc, ne, ff 60m from Wetland A, 11m from Wetland C, all under same forested cover 25% open water 	 Water conveyance, attenuation, storage, and release Groundwater re- charge: palustrine with clay soils Inflow from the north end of wetland Outflow south into the maple swamp (WOD- 002 Wetland C) Water quality improvement: intermittent outflow into 	 No rare species observed Within significant woodland No fish habitat 	Treat as Significant	6	Yes

Table 11. Summary of Wetlands within 120m of the Bornish Wind Energy Centre Project Area

					agricultural landscape				
WET-002C Wetland	0.8	Swamp SWDM3-1 Isolated	WT – 109 AR – 24 OL – >120 UL – 24 SI - >120	 h, ls, gc 64 m to Wetland A, 11 m to Wetland B, all under same forested cover No open water 	 Water conveyance, attenuation and storage Groundwater recharge: Isolated with clay soils Water quality improvement: no apparent discharge observed 	 No rare species observed Significant woodland No fish habitat 	Treat as Significant	6	Yes
WET-003 Wetland	1.8	Swamp SWDH3-2 Palustrine	WT – 100 AR – 6 OL – 35 UL – 6 SI - >120	 h, ls, gc No open water 	 Water conveyance, attenuation and storage Groundwater recharge: palustrine with clay soils Water quality improvement: no evidence of discharge observed 	 No rare species observed Significant woodland No fish habitat 	Treat as Significant	4,6,7	Yes
WET-008 Wetland	0.3	Swamp SWDM2-2 Isolated	WT - >120 AR - 92 OL - >120 UL - >120 SI - >120	 h, dh, ts, ls, gc No open water 	 Water conveyance, attenuation and storage Groundwater recharge: isolated with sandy loam soils Water quality improvement: 	 No rare species observed Significant woodland No fish habitat 	Treat as Significant	4	Yes

					no evidence of discharge observed				
WET-010 Wetland	0.7	Swamp SWDM2-2 Palustrine	WT - 55 AR - 109 OL - >120 UL - >0.1 SI - >120	 h, ts,ls, gc, ne No open water 	 Water conveyance, attenuation, storage, and release Groundwater discharge: palustrine with clay soils Water quality improvement: no evidence of discharge observed 	 No rare species observed Significant woodland No fish habitat 	Treat as Significant	4,6	Yes
WET-014 Wetland	3.0	Swamp SWDM3 Isolated	WT – 70 AR – 5 OL – >120 UL – 5 SI - >120	 h, ts, ls, gc No open water 	 Water conveyance, attenuation and storage Groundwater recharge: isolated with clay soils Water quality improvement: no evidence of discharge observed 	 No rare species observed Significant woodland No fish habitat 	Treat as Significant	6	Yes
WET-018 Wetland	0.4	Swamp SWDM3-2 Palustrine	WT - 115 AR - 50 OL - >120 UL - 50 SI - >120	 h, dh, ts, ls, gc, m 5% open water 	 Water conveyance, attenuation, storage, and release Groundwater recharge: palustrine with mineral soils 	 No rare species observed Significant woodland No fish habitat 	Treat as Significant	4,6	Yes

					Water quality improvement: water inlet from field on west side, outlet into floodplain on north side of wetland				
WET-025 Wetland	1.9	Swamp SWDM2-2 Type unknown	WT - >120 AR - >120 OL - 35 UL - >120 SI - >120	• h, dh, ts, ls, gc, m	 Water conveyance, attenuation, storage, and release No site access to conduct soil surveys or detect water improvement quality/groundw ater recharge Water protection 	 No rare species observed Significant woodland No fish habitat 	Yes	3,4	Yes
WET-030 Wetland	1.5	Swamp SWDM3-2 Type unknown	WT – 89 AR – 73 OL – >120 UL – 73 SI – >120	• h , dh, ts, ls, gc, m	 Water conveyance, attenuation, storage, and release No site access to conduct soil surveys or detect water improvement quality/groundw ater recharge Water protection 	 No rare species observed Significant woodland No fish habitat 	Yes	6	Yes

Legend WT: Wind Turbine AR: Access Road

OL: Overhead Line UL: Underground Line SI: Supporting Infrastructure

9.0 Valleylands

During detailed site investigations at the Bornish Wind Energy Centre, NRSI biologists identified a total of 2 candidate valleylands within the project area. Both of these valleylands have been compared to provincial evaluation criteria outlined above in Table 7 and determined to be significant. These features are discussed below, with habitat characteristics and functions described in more detail in Table 12 below. These significant valleylands have been mapped in Figures 3 to 7, along with significant woodlands and wetlands.

VAL-004 - Valleyland

Within WOD-004 there is a stream that runs through the valleyland, which is bordered on both sides by vegetation. This valleyland is a 15.6ha community with vegetation consisting of a canopy dominated by sugar maple with white ash, green ash, red oak and willow species. The sub-canopy contains European buckthorn, white ash, green ash, hawthorn species, American beech and white elm. The understory is made up of European buckthorn, goldenrod species, aster species and white ash, while the groundcover consists of garlic mustard, aster species, poison ivy and white ash. This natural area contains three complexes, including a buckthorn deciduous shrub thicket (THDM2-6), a dry-fresh sugar maple-white ash deciduous forest (FODM5-8) and a dry-fresh forb meadow (MEFM1) ecosite. This valleyland will be carried forward to the EOS. This valleyland is located >0.1m from a proposed access road and underground cabling.

VAL-047 Valleyland

Within WOD-047, there is a 1.6ha valleyland that contains a stream, which is bordered by vegetation on both sides. The stream continues into the adjacent WOD-048, which is a 119.5ha forest. This valleyland is a natural area with vegetation consisting of a canopy and sub-canopy dominated by black locust and containing silver poplar and Scots pine. The understory consists of Scots pine, eastern red cedar and European buckthorn, while the groundcover is dominated by cattail species, goldenrod species and grass species. This valleyland is located 20m from proposed overhead cabling and will carry forward to the EIS.

Table 12 Summar	of Volloylands within the Dernich Wind Energy Contro Project Area	
Table 12. Summar	of Valleylands within the Bornish Wind Energy Centre Project Area	

Feature ID	Size (ha)	Composition	Distance to Project Location (m)	Landform Functions	Ecological Features	Restored Ecological Functions	Significance	Figure	EIS Required (Y/N)
VAL- 004 Valleyland	15.6	WODM4-3	WT – 56 AR – >0.1 OL – 23 UL – >0.1 SI - >120	 Water conveyance, attenuation, storage, and release 	 Degree of naturalness: >25% natural vegetation Linkage function: greater than 100m width 	 No known existing or planned restoration projects 	Yes	3	Yes
VAL-047 Valleyland	1.6	WODM5	WT - >120 AR - >120 OL - 20 UL - >120 SI - >120	 Water conveyance, attenuation, storage, and release Water protection 	 Proximity to other significant woodland (WOD 048) Degree of naturalness: >25% natural vegetation 	 No known existing or planned restoration projects 	Yes	3,4	Yes

Legend WT: Wind Turbine

AR: Access Road

OL: Overhead Line

UL: Underground Line SI: Supporting Infrastructure

10.0 Wildlife Habitat

During the detailed site investigation of the Bornish Wind Energy Centre, NRSI biologists have examined natural features within the project area for the presence of wildlife habitats. Several candidate wildlife habitat types have been identified within the project area. Each of these wildlife habitats has been examined and compared with provincial standards of significance to assist in the preparation of the Environmental Impact Study.

The following discussion has been divided into the 4 general categories of wildlife habitat: seasonal concentration areas, rare vegetation communities and specialized wildlife habitat, habitat for species of conservation concern, and animal movement corridors. Each wildlife habitat identified in the site investigation has been summarized in the following sections, with more detailed information on survey methods and results provided in Table 13 below. All confirmed significant wildlife habitats, or those treated as significant pending additional studies, have been mapped in Figures 8 to 12, while generalized candidate significant wildlife habitat can be found on Figures 13 to 17.

10.1 Seasonal Concentration Areas

Based on the results of the site investigation, NRSI biologists have identified 20 potentially significant wildlife habitats, representing 2 types of seasonal concentration areas, including raptor winter feeding and roosting areas, and bat maternity colonies. The general habitat characteristics and distance relative to the project location for each of these seasonal concentration areas can be found in Table 13 and are mapped in Figure 8 to 12.

10.2 Rare Vegetation Communities and Specialized Wildlife Habitat

The results of the site investigation have identified no rare vegetation communities and 3 potentially significant specialized wildlife habitats in the form of candidate Amphibian Breeding Habitats (Woodland). General habitat characteristics and distance relative to the project location for the specialized wildlife habitat can be found in Table 13 and are mapped in Figures 8 to 12.

10.3 Habitat of Species of Conservation Concern

No habitats of species of conservation concern were identified within the Bornish Wind Energy Centre project area.

10.4 Animal Movement Corridors

Animal movement corridors are represented by a diversity of landscape features such as stream and river valleys, woodlands, fencerows, as well as abandoned road and rail allowances (OMNR 2000). They are used by wildlife to move from one habitat to another. The presence of significant movement corridors must be examined when significant seasonal concentration areas are identified such as amphibian breeding areas or deer wintering yards. The presence of amphibian movement corridors will be examined during amphibian breeding habitat (woodland) significance surveys (see Table 13).



