Environment



NextEra Energy Canada, ULC

# Addendum to the Construction Plan Report – Bluewater Wind Energy Centre

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page

## **Table of Contents**

1.	Intro	oduction	1
		The Proponent	
	1.2	Project Study Area	1
2.	Prop	oosed Project Modifications	2
3.	Edite	s to the Construction Report	8
4.	Sum	mary and Conclusions	. 14

### **List of Figures**

Figure 2-1 Modified Project Location
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## List of Tables

Table 2-1	Summary of Project Modifications	3
Table 3-1	Edits to the Construction Plan Report	9

### **Glossary of Terms**

EIS	.Environmental Impact Study
MNR	Ontario Ministry of Natural Resources
NextEra	.NextEra Energy Canada, ULC
O.Reg. 359/09	Ontario Regulation 359/09
The Project	Bluewater Wind Energy Centre
REA	.Renewable Energy Approval

## 1. Introduction

Varna Wind, Inc., a wholly owned subsidiary of NextEra Energy Canada, ULC (NextEra) is proposing to construct a wind energy centre project in the Municipalities of Bluewater and Huron East in Huron County, Ontario. The following sections of this Addendum describe the proposed modifications to this Project and resulting updates to the Construction Plan Report.

### 1.1 The Proponent

The Project will be owned and operated by Varna Wind, Inc., a subsidiary of NextEra. NextEra's indirect parent company is NextEra Energy Resources, LLC. The proponent has not changed from the initial REA submission.

The primary contacts for the Project are as follows:

Project Proponent	Project Consultant
Nicole Geneau Director NextEra Energy Canada, ULC 390 Bay Street, Suite 1720 Toronto, ON M5H 2Y2	Marc Rose Senior Environmental Planner AECOM 300-300 Town Centre Blvd. Markham, Ontario L3R 5Z6
Phone:1-416-364-9714 Email:Bluewater.Wind@NextEraEnergy.com Website:www.NextEraEnergyCanada.com	Phone:905-477-8400 x388 Email:marc.rose@aecom.com

### 1.2 Project Study Area

The proposed Project is located in Huron County, within the Municipalities of Bluewater and Huron East (refer to Figure 2-1). The Project Study Area has not changed from the initial REA submission.

The following co-ordinates define the external boundaries of the Project Study Area:

Longitude	Latitude
-81.680043	43.553413
-81.350138	43.534437
-81.402727	43.471275
-81.679229	43.433866

## 2. Proposed Project Modifications

NextEra is proposing modifications to the Project. These proposed Project modifications are summarized in Table 2-1 and Figure 2-1.

Table 2-1 summarizes and documents the following about each of the proposed modifications:

- 1. A description of the modification and a rationale for why the modification is proposed; and
- 2. New potential environmental effects and corresponding mitigation measures.

Figure 2-1 illustrates the modified Project Location.

#### Table 2-1 Summary of Project Modifications

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	
A	A1: Removal of Turbine 20 and associated access road and collection line, and provision of new access road to Turbine 19	Land owner no longer participating in project.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
	A2: Addition of meteorological (met) tower and associated infrastructure on private property	The met tower is required to obtain critical data to ensure the safe and efficient operation of the Project. As per amendment to O.Reg. 359/09, met towers are now considered to be part of a renewable energy generation facility and therefore this tower was added to the assessment.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
	A3: Relocation of collection line to Turbine 19 (from Turbine 21) – to travel west on north side of private property and north in the Goshen Line right-of-way	Relocation of the collection line is necessary following the removal of Turbine 20.	Cultural Heritage: • Locations 33 and 34 documented.	Cultural • Stage
В	<b>B1:</b> Relocation of access road to Turbine 9 – to be relocated to south side of private property – and minor shift to disturbance area associated with Turbine 10	As per land owner request for relocation of access road. Minimize impacts to current land use and agricultural practices.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
	<b>B2:</b> Addition of met tower and associated infrastructure on private property	The met tower is required to obtain critical data to ensure the safe and efficient operation of the Project. As per amendment to O.Reg. 359/09, met towers are now considered to be part of a renewable energy generation facility and therefore this tower was added to the assessment.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
С	C1: Realignment of access road and collection line to Turbine 17 – to travel directly back from Bronson Line	As per land owner request for separate access road. Minimize impacts to current land use and agricultural practices.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
	C2: Addition of crane path between Turbines 17 and 18 (located primarily within footprint of infrastructure that is being removed)	Proposed to reduce cost of construction.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
	C3: Realignment of access road and collection line to Turbine 18 – to travel directly back from Bronson Line	As per land owner request for separate access road. Minimize impacts to current land use and agricultural practices.	<ul> <li>Natural Heritage:</li> <li>Access road proposed within 120 m of natural area 450. Feature previously studied; identified as Significant Woodland (Woodland E) and Generalized Candidate Significant Wildlife Habitat (Amphibian Woodland Breeding Habitat and Habitat for Species of Conservation Concern). Feature treated as Significant Amphibian Woodland Breeding Habitat (AWO-12) with commitment to complete pre-construction evaluation of significance studies. New potential effects associated with access road construction near this feature include:</li> <li>Accidental intrusion into natural feature resulting in habitat damage;</li> <li>Disruption of amphibians moving to breeding pools and home range;</li> <li>Possible indirect effects on breeding pool condition through changes to surface water drainage patterns resulting from access road construction; and</li> <li>Risk of mortality to amphibians moving between breeding pools and home range due to vehicular collisions along access road</li> </ul>	Natural • For Ai signifi NHA 1 featur
	C4: Realignment of collection line at Bronson Line / Kippen Road to follow Bronson Line right of way	Land owner no longer participating in project.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
D	,	As per land owner request for realignment of access road.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A

### New Mitigation Measures

ral Heritage: age 3 assessment of Locations 33 and 34.

ural Heritage: or Amphibian Woodland Breeding Habitat AWO-12 (if determined to be gnificant), mitigation measures will be the same as described in the approved HA for other access roads proposed near amphibian woodland breeding habitat tures (Section 5.4).

#### Table 2-1 Summary of Project Modifications

abel on gure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	
E	Realignment of collection line between Turbines 13, 14 and 24	Land owner no longer participating in project	<ul> <li>Natural Heritage:</li> <li>Collection line proposed to be installed beneath natural area 487 via directional drilling. Feature previously studied; identified as Significant Woodland (Woodland K), Candidate Significant Amphibian Woodland Breeding Habitat (AWO-06), and Generalized Candidate Significant Wildlife Habitat (Bat Maternity Colony, Mature Forest Stand, and Habitat for Species of Conservation Concern). New potential environmental effects associated with collection line installation under these features:</li> <li>Potential for unplanned intrusion into Significant Woodland Feature K in event of equipment malfunction due to installation of collection line via horizontal directional drilling; and</li> <li>Potential for unplanned intrusion into Significant Amphibian Woodland Breeding Habitat (AWO-06) and Generalized Candidate Significant Wildlife Habitat in natural area 487 in the event of equipment malfunction due to installation of collection line via horizontal directional drilling.</li> </ul>	Habitat are the directio Genera
			<ul> <li>Water Bodies:</li> <li>Effects associated with new crossing of a water body include: <ul> <li>Release of pressurized drilling fluids into watercourses from fractures in substrate (also known as 'frac-out').</li> <li>Change to groundwater flow patterns, which may affect groundwater discharge to watercourses.</li> <li>Increase in erosion and sedimentation from the entry and exit drill holes required for the directional drilling activities.</li> <li>Release / discharge of sediment laden runoff from the construction area.</li> <li>Soil/water contamination by oils, grease and other materials from accidental spills and release of contaminants from equipment.</li> </ul> </li> </ul>	Water Bo Correct Minimiz Locate Develo Develo Control Conduc Act, R.3 Locate Collect disposa Ensure risk of a
F	F1: Relocation of transmission line from municipal	Landowner has agreed to participate in project.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	Develo     N/A
	right-of-way onto private property	Avoid conflicts with existing infrastructure in the right-of-way.	-	
	F2: Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	<ul> <li>Natural Heritage:</li> <li>Transmission line is proposed within natural area 514 (vegetation removal required). New site investigation and evaluation of significance studies completed; feature confirmed to be a Significant Woodland (Woodland AJ) and treated as a Significant Bat Maternity Colony (BMC-15) with commitment to complete preconstruction evaluation of significance studies. New potential effects associated with tree removal in these features include:</li> <li>Loss of up to 0.1 ha of forest cover in Significant Woodland Feature AJ;</li> <li>Clearing of vegetation for maintenance of the transmission line, resulting in accidental damage to Significant Woodland AJ;</li> <li>Displacement and/or mortality of nursing female and juvenile bats resulting from vegetation clearing for transmission line construction within Bat Maternity Colony BMC-15;</li> <li>Removal of confirmed significant cavity trees or other suitable cavity trees resulting from vegetation clearing for the transmission line within Bat Maternity Colony BMC-15; and</li> <li>Noise disturbance to and/or avoidance behaviour of bats during construction within Bat Maternity Colony BMC-15.</li> </ul>	Natural H • Establis and ma of the a • Perform and bat consult • Clearly • Fell tree adjacer • Damag covered Arboris • Prepare whether • For ead closest habitat) • Tree re
	F3: Relocation of transmission line from municipal	Landowner has agreed to participate in project.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	-

#### **New Mitigation Measures**

#### al Heritage:

Significant Woodland K, Amphibian Woodland Breeding Habitat AWO-06 (if ermined to be significant) and Generalized Candidate Significant Wildlife itat in natural area 487, additional mitigation measures included in the EIS that the same as described in the approved NHA for collection line installation via ctional drilling beneath other Significant Woodlands (Section 5.5) and heralized Candidate Significant Wildlife Habitat (Section 5.3.2.1).

Bodies:

rect maintenance of machinery.

- mize vehicle traffic on exposed soils and sensitive slopes.
- ate facilities where contaminants are handled at least 30 m away from water bodies. elop and implement an erosion and sediment control plan.
- elop a spill response plan.
- trol soil / water contamination through best management practices.
- duct all drilling by licensed drillers in accordance with Ontario Water Resources R.S.O. 1990.
- ate drill entry and exit pits at least 30 m from water bodies.
- ect drill cuttings as they are generated, and place in a soil bin or bag for off-site osal.
- ure drill depth is at an appropriate depth below the water body to reduce the of a 'frac-out'.
- itor water bodies for signs of surface disturbance.
- elop a 'frac-out' contingency plan.

al Heritage:

- ablish an area of forest equal in area to the cleared area through tree planting management (e.g., in partnership with a local Conservation Authority). Details he afforestation plan will be provided to MNR in a Compensation Plan. form vegetation clearing for construction outside of the breeding bird season bat maternal period (May 1 to July 31). If this is not possible, MNR will be
- sulted regarding mitigation measures that may be required.
- arly stake area to be cleared.
- trees with a chainsaw toward the construction area to reduce damage to acent vegetation being retained.
- naged tree roots will be cut clean as soon as possible and exposed roots ered in approved topsoil. This work to be carried out under supervision of an orist or Forester.
- bare a tree preservation plan which identifies specific trees to be removed and ther each tree contains a cavity suitable for potential use as a bat maternity colony. each suitable cavity tree to be removed, a bat house will be installed in the est suitable woodland habitat (the remainder of the woodland for the affected itat). Details will be determined through consultation with MNR.
- e removal will occur during daylight hours.
- edule vegetation clearing for operational maintenance to occur outside of the eding bird season (May 1 to July 31). Undertake active nest surveys if etation removal must take place during this period.

#### Table 2-1 Summary of Project Modifications

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	
G	G1: Relocation of transmission line from municipal	Landowner has agreed to participate in project.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
	right-of-way onto private property <b>G2:</b> Relocation of transmission line from municipal	Avoid conflicts with existing infrastructure in the right-of-way. Landowner has agreed to participate in project.	Water Bodies: • No effects provided that transmission poles are set back 10-15 m from top of bank.	N/A
	right-of-way onto private property <b>G3:</b> Relocation of transmission line from municipal	Avoid conflicts with existing infrastructure in the right-of-way. Landowner has agreed to participate in project.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
н	right-of-way onto private property Relocation of transmission line from municipal right-of-way onto private property	Avoid conflicts with existing infrastructure in the right-of-way. Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
I	II: Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.		N/A
	I2: Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	<ul> <li>Natural Heritage:</li> <li>Transmission line is proposed within natural area 551 (vegetation removal required). New site investigation and evaluation of significance studies completed; feature confirmed to be a Significant Woodland (Woodland AO) and Habitat for Bird Species of Conservation Concern (Red-Headed Woodpecker) (SCB-02). New potential effects associated with tree removal in these features include:</li> <li>Loss of up to 0.2 ha of forest cover in Significant Woodland Feature AO;</li> <li>Clearing of vegetation for maintenance of the transmission line, resulting in accidental damage to Significant Woodland AO;</li> <li>Removal of vegetation (up to 0.1 ha) within significant feature resulting in habitat feature SCB-02;</li> <li>Red-Headed Woodpecker Breeding Habitat Feature (SCB-02) may be disturbed by routine maintenance of the transmission line corridor; and</li> <li>Noise disturbance to breeding Red-headed Woodpeckers during transmission line construction within Red-headed Woodpecker Habitat Feature SCB-02.</li> <li>Water Bodies:</li> <li>No effects provided that transmission poles are set back 10-15 m from top of bank.</li> </ul>	<ul> <li>MNR</li> <li>Clearly</li> <li>Fell treadjace</li> <li>Damage covere</li> </ul>
J	J1: Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	<ul> <li>Natural Heritage:</li> <li>Transmission line is proposed within natural area 555. New site investigation and evaluation of significance studies completed; feature confirmed to be a Significant Woodland (Woodland AP). New potential effects associated with tree removal in this feature include:</li> <li>Loss of up to 0.2 ha of forest cover in Significant Woodland Feature AP; and</li> <li>Clearing of vegetation for maintenance of the transmission line, resulting in accidental damage to Significant Woodland AP.</li> <li>Cultural Heritage:</li> <li>Location 29 documented.</li> </ul>	Natural H • Establi and ma of the a • Perforr (May 1 mitigat • Clearly • Fell tre adjace • Damag covere Arboris • Sched breedin vegeta Cultural • Stage
	J2: Relocation of transmission line from municipal right-of-way to follow unopened municipal right- of-way	Avoid conflicts with existing infrastructure in the right-of-way.	<ul> <li>Natural Heritage:</li> <li>Transmission line is proposed within natural area 582. New site investigation and evaluation of significance studies completed; not a significant feature. Water Bodies:</li> <li>No effects provided that transmission poles are set back 10-15 m from top of bank.</li> </ul>	Natural H

#### New Mitigation Measures

ral Heritage:

tablish an area of forest equal in area to the cleared area through tree planting d management (e.g., in partnership with a local Conservation Authority). Details the afforestation plan will be provided to MNR in a Compensation Plan.

rform vegetation clearing for construction outside of the breeding bird season ay 1 to July 31). If this is not possible:

naintain a 20 m buffer around any active Red-headed Woodpecker nest within which no vegetation removal will occur; and

INR will be consulted regarding mitigation measures that may be required. early stake area to be cleared.

Il trees with a chainsaw toward the construction area to reduce damage to accent vegetation being retained.

maged tree roots will be cut clean as soon as possible and exposed roots vered in approved topsoil. This work to be carried out under supervision of an porist or Forester.

nimize the area of tree removal within the natural area to the extent possible. move trees by hand-held equipment and drag them out of the natural area to

nimize soil disturbance. If possible, leave some woody debris to decompose naturally. y vehicles used within the natural area will have wide-based tires. Tracked nicles will be avoided.

hedule vegetation clearing for operational maintenance to occur outside of the eeding bird season (May 1 to July 31). If vegetation clearing takes place during s timing window, nest searches will be conducted by qualified Biologist. ral Heritage:

stablish an area of forest equal in area to the cleared area through tree planting ad management (e.g., in partnership with a local Conservation Authority). Details the afforestation plan will be provided to MNR in a Compensation Plan.

erform vegetation clearing for construction outside of the breeding bird season *l*ay 1 to July 31). If this is not possible, MNR will be consulted regarding itigation measures that may be required.

early stake area to be cleared.

ell trees with a chainsaw toward the construction area to reduce damage to djacent vegetation being retained.

amaged tree roots will be cut clean as soon as possible and exposed roots overed in approved topsoil. This work to be carried out under supervision of an borist or Forester.

chedule vegetation clearing for operational maintenance to occur outside of the eeding bird season (May 1 to July 31). Undertake active nest surveys if getation removal must take place during this period.

Iral Heritage:

age 3 assessment of Location 29. Jral Heritage:

### Table 2-1 Summary of Project Modifications

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	
К	<b>K1:</b> Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	None – no new natural heritage or water body features within 120 m. Area subsequently studied for cultural heritage – no new resources affected.	N/A
	<b>K2:</b> Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	<ul><li>Water Bodies:</li><li>No effects provided that transmission poles are set back 10-15 m from top of bank.</li></ul>	N/A
	<b>K3:</b> Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
L	Relocation of transmission line from municipal right-of-way onto private property	Landowner has agreed to participate in project. Avoid conflicts with existing infrastructure in the right-of-way.	<ul><li>Water Bodies:</li><li>No effects provided that transmission poles are set back 10-15 m from top of bank.</li></ul>	N/A
М	Relocation of Point of Interconnect (POI) from Seaforth substation property to private property	Land owner agreed to participate in the project Avoid conflicts with existing infrastructure.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
N	Relocation of substation within the same property parcel	Original location was in a floodplain.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A

### New Mitigation Measures



## 3. Edits to the Construction Report

Table 3-1 documents the edits to the Construction Plan Report resulting from the modifications described above.

	Original Text	R
Section 1/ page 1	Although NextEra is seeking a Renewable Energy Approval (REA) for 41 wind turbines, up to a total of 37 are proposed to be constructed for the Project.	Although NextEra is seeking a Renewable Energy Approval (REA for the Project.
Section 1.2/page 1		Project Proponent
	Nicole Geneau	Nicole Geneau, Project Director
	Project Director	NextEra Energy Canada, ULC
	NextEra Energy Canada, ULC	5500 North Service Road, Suite 205
	5500 North Service Road, Suite 205	Burlington, Ontario L7L 6W6
	Burlington, Ontario L7L 6W6	Phone: 1-887-257-7330
	Phone: 1-887-257-7330	390 Bay Street, Suite 1720, Toronto, ON M5H 2Y2
		Phone: 1-416-364-9714
Section 2/page 5	Up to 41 1.6 MW GE model wind turbine generator locations and pad mounted step-up transformers are proposed for permitting (a maximum of	Up to 41 40 1.6 MW GE model wind turbine generator locations a
	37 turbines will ultimately be constructed);	maximum of 37 turbines will ultimately be constructed);
	Approximately 52 km of 34.5 kV underground electrical collection lines to connect the turbines to the proposed transformer substation	Approximately 53 52 km of 34.5 kV underground electrical collection line
	Approximately 24 km of 115 kV transmission line proposed along Centennial Road and Hensall Road from the proposed transformer substation	Approximately 24 km of 115 kV transmission line proposed along
	to the existing Hydro One Seaforth Transformer Station;	to the breaker switch station at the Point of Interconnect (POI) with
	Approximately 40 km of turking access roads:	Approximately 40 37 km of turbine access roads;
Section 2/page 5	Approximately 40 km of turbine access roads; Figure 2-1: shows the locations of Project components including: wind turbines, access roads, the electrical collection system, 115 kV	Figure 2-1: shows the locations of Project components including:
Section 2/page 5		transmission line, the operations and maintenance building, the p
	temporary laydown/storage areas.	Seaforth Transformer Station and temporary laydown/storage are
Table 2-1/ page 10		Transformer Substation and Breaker Switch Station
Section 2.2/page 11	The proposed Project will consist of 37 1.6 MW GE model wind turbine generators with a nameplate capacity of 60 MW and pad mounted step-	The proposed Project will consist of 37 1.6 MW GE model wind tu
Section 2.2/page 11	up transformers (41 turbines are shown for permitting purposes).	up transformers (41 40 turbines are shown for permitting purpose
	A 115 kV transmission line will connect the transformer substation to the Hydro One transmission system and is proposed to be installed along	A 115 kV transmission line will connect the transformer substatior
	Centennial Road easterly to Hensall Road and northerly to the Village of Seaforth.	installed along Centennial Road easterly to Hensall Road and not
	A permanent meteorological (weather monitoring) tower and maintenance and operations building will be constructed on site.	A Permanent meteorological (weather monitoring) towers and a ma
Section 2.2.2/page 10		Temporary crane paths will also be constructed. These will be 11
	above. Once the construction activities have been completed, the granular base will be removed and distributed to the landowners, if desired,	above. Once the construction activities have been completed, the
	or removed from the site and disposed of in an approved and appropriate manner. The disturbed area will have the topsoil replaced from	or removed from the site and disposed of in an approved and app
	stockpiled material and will be reseeded in consultation with the landowner.	stockpiled material and will be reseeded in consultation with the li
Section 2.2.3/page 12		A 4 hectare (10 acre) site will be constructed for the temporary sto
Section 2.2.4/page 12	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use.	
	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use.
	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the terms of term
	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the the station is proposed to be located within the existing road right-of-
	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the transmission is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the
Section 2.2.4/page 12 Section 2.2.9/page 16	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the the Station is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the interconnection plan for any wind energy centre is subject to
	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the the Station is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the the interconnection plan for any wind energy centre is subject to System Operator which manages the Province's electricity grid, H
Section 2.2.9/page 16	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario Energy Board, which regulates the industry through the Transmission System Code and the Distribution System Code.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the transmission is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest to the interconnection plan for any wind energy centre is subject to System Operator which manages the Province's electricity grid, H and the Ontario Energy Board, which regulates the industry through the transmission of the transmission is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the transmission of the transmission is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the transmission of the transmission is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the transmission below to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the transmission below to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the transmission below to be bluewater and the transmission below to be bluewater and the ontario Energy Board, which regulates the industry through the transmission below to be bluewater and the transmission below to be bluewater and the ontario Energy Board, which regulates the industry through the transmission below to be bluewater and the transmission below
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Section 2.2.9/page 16 Section 2.2.10/page 16 Section 2.2.11/page 17 Section 3/page 19	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario Energy Board, which regulates the industry through the Transmission System Code and the Distribution System Code. During construction of the substation, topsoil and subsoils will be stripped and stockpiled separately. Stripped topsoil and subsoil will be placed in the temporary storage facility area and topsoil stripped from the substation area will be distributed on other Project properties. The construction crew will consist of approximately 25-40 people and is expected to last for about four months. An operations building, approximately 30 m by 15 m in size, will be constructed on privately held lands or an existing suitable structure will be purchased/leased for the purpose of monitoring the day-to-day operations of the wind energy centre and supporting maintenance efforts. This description of effects was completed for all 41 turbines and associated infrastructure shown on the Project Location figures.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the the Station is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the interconnection plan for any wind energy centre is subject to System Operator which manages the Province's electricity grid, Hand the Ontario Energy Board, which regulates the industry throud During construction of the substation and the breaker switch static topsoil and subsoil will be placed in the temporary storage facility Project properties. At the substation, the construction crew will comonths. An operations building, approximately 30 m by 15 m in size, will be substation) or an existing suitable structure will be purchased/least centre and supporting maintenance efforts. This description of effects was completed for all 41 <u>40</u> turbines and asteriors.
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Section 2.2.9/page 16 Section 2.2.10/page 16 Section 2.2.11/page 17 Section 3/page 19	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario Energy Board, which regulates the industry through the Transmission System Code and the Distribution System Code. During construction of the substation, topsoil and subsoils will be stripped and stockpiled separately. Stripped topsoil and subsoil will be placed in the temporary storage facility area and topsoil stripped from the substation area will be distributed on other Project properties. The construction crew will consist of approximately 25-40 people and is expected to last for about four months. An operations building, approximately 30 m by 15 m in size, will be constructed on privately held lands or an existing suitable structure will be purchased/leased for the purpose of monitoring the day-to-day operations of the wind energy centre and supporting maintenance efforts. This description of effects was completed for all 41 turbines and associated infrastructure shown on the Project Location figures.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the the Station is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the interconnection plan for any wind energy centre is subject to System Operator which manages the Province's electricity grid, H and the Ontario Energy Board, which regulates the industry throud During construction of the substation and the breaker switch static topsoil and subsoil will be placed in the temporary storage facility Project properties. At the substation, the construction crew will comonths. An operations building, approximately 30 m by 15 m in size, will be substation) or an existing suitable structure will be purchased/lease centre and supporting maintenance efforts. This description of effects was completed for all 41 40 turbines and as a second phase of the Stage 2 archaeological assessment was completed y 400 hectares of land in the transmission line corrid
Section 2.2.9/page 16 Section 2.2.10/page 16 Section 2.2.11/page 17 Section 3/page 19	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario Energy Board, which regulates the industry through the Transmission System Code and the Distribution System Code. During construction of the substation, topsoil and subsoils will be stripped and stockpiled separately. Stripped topsoil and subsoil will be placed in the temporary storage facility area and topsoil stripped from the substation area will be distributed on other Project properties. The construction crew will consist of approximately 25-40 people and is expected to last for about four months. An operations building, approximately 30 m by 15 m in size, will be constructed on privately held lands or an existing suitable structure will be purchased/leased for the purpose of monitoring the day-to-day operations of the wind energy centre and supporting maintenance efforts. This description of effects was completed for all 41 turbines and associated infrastructure shown on the Project Location figures.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the the Station is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the interconnection plan for any wind energy centre is subject to System Operator which manages the Province's electricity grid, H and the Ontario Energy Board, which regulates the industry throud During construction of the substation and the breaker switch static topsoil and subsoil will be placed in the temporary storage facility Project properties. At the substation, the construction crew will comonths. An operations building, approximately 30 m by 15 m in size, will be substation) or an existing suitable structure will be purchased/lease centre and supporting maintenance efforts. This description of effects was completed for all 41 40 turbines and as A second phase of the Stage 2 archaeological assessment was completed for all 24 40 hectares of land in the transmission line corrid of 10 archaeological sites, including 3 pre contact Aboriginal and
Section 2.2.9/page 16 Section 2.2.10/page 16 Section 2.2.11/page 17 Section 3/page 19	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario Energy Board, which regulates the industry through the Transmission System Code and the Distribution System Code. During construction of the substation, topsoil and subsoils will be stripped and stockpiled separately. Stripped topsoil and subsoil will be placed in the temporary storage facility area and topsoil stripped from the substation area will be distributed on other Project properties. The construction crew will consist of approximately 25-40 people and is expected to last for about four months. An operations building, approximately 30 m by 15 m in size, will be constructed on privately held lands or an existing suitable structure will be purchased/leased for the purpose of monitoring the day-to-day operations of the wind energy centre and supporting maintenance efforts. This description of effects was completed for all 41 turbines and associated infrastructure shown on the Project Location figures.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the trestation is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the interconnection plan for any wind energy centre is subject to a System Operator which manages the Province's electricity grid, H and the Ontario Energy Board, which regulates the industry throug During construction of the substation and the breaker switch static topsoil and subsoil will be placed in the temporary storage facility Project properties. At the substation, the construction crew will comonths. An operations building, approximately 30 m by 15 m in size, will b substation) or an existing suitable structure will be purchased/lease centre and supporting maintenance efforts. This description of effects was completed for all 41 <u>40</u> turbines and as A second phase of the Stage 2 archaeological assessment was completed to further evaluate the cultural heritage value or interval.
Section 2.2.9/page 16 Section 2.2.10/page 16 Section 2.2.11/page 17 Section 3/page 19	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario Energy Board, which regulates the industry through the Transmission System Code and the Distribution System Code. During construction of the substation, topsoil and subsoils will be stripped and stockpiled separately. Stripped topsoil and subsoil will be placed in the temporary storage facility area and topsoil stripped from the substation area will be distributed on other Project properties. The construction crew will consist of approximately 25-40 people and is expected to last for about four months. An operations building, approximately 30 m by 15 m in size, will be constructed on privately held lands or an existing suitable structure will be purchased/leased for the purpose of monitoring the day-to-day operations of the wind energy centre and supporting maintenance efforts. This description of effects was completed for all 41 turbines and associated infrastructure shown on the Project Location figures.	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the trestation is proposed to be located within the existing road right-of-Bluewater and Huron East or on private property adjacent to the rest of the interconnection plan for any wind energy centre is subject to System Operator which manages the Province's electricity grid, H and the Ontario Energy Board, which regulates the industry throug During construction of the substation and the breaker switch static topsoil and subsoil will be placed in the temporary storage facility Project properties. At the substation, the construction crew will comonths. An operations building, approximately 30 m by 15 m in size, will be substation) or an existing suitable structure will be purchased/lease centre and supporting maintenance efforts. This description of effects was completed for all 41 <u>40</u> turbines and as A second phase of the Stage 2 archaeological assessment was completed to further evaluate the cultural heritage value or intercent stage 2 archaeological assessment, while none of the pre-contact Aborginal and stage 2 archaeological assessment, while none of the pre-contact assessment was completed for the pre-contact assessment.
Section 2.2.9/page 16 Section 2.2.10/page 16 Section 2.2.11/page 17	The excavated topsoil will be re-used on site as feasible. Once the turbine erection is complete, the crane pad will be removed and will be restored to prior use. The 115 kV electrical transmission line that will be built from the transformer substation to the connection point at the Seaforth Transformer Station is proposed to be located within the existing road right-of-ways along Centennial Road and Hensall Road in the Municipalities of Bluewater and Huron East. The interconnection plan for any wind energy centre is subject to study, design and engineering by the Integrated Electricity System Operator which manages the Province's electricity grid, Hydro One which owns the transmission lines, the local distribution company and the Ontario Energy Board, which regulates the industry through the Transmission System Code and the Distribution System Code. During construction of the substation, topsoil and subsoils will be stripped and stockpiled separately. Stripped topsoil and subsoil will be placed in the temporary storage facility area and topsoil stripped from the substation area will be distributed on other Project properties. The construction crew will consist of approximately 25-40 people and is expected to last for about four months. An operations building, approximately 30 m by 15 m in size, will be constructed on privately held lands or an existing suitable structure will be purchased/leased for the purpose of monitoring the day-to-day operations of the wind energy centre and supporting maintenance efforts. This description of effects was completed for all 41 turbines and associated infrastructure shown on the Project Location figures. n/a	The excavated topsoil will be re-used on site as feasible. Once the restored to prior use. The 115 kV electrical transmission line that will be built from the trestation is proposed to be located within the existing road right-of-belluewater and Huron East or on private property adjacent to the rest of the interconnection plan for any wind energy centre is subject to a System Operator which manages the Province's electricity grid, H and the Ontario Energy Board, which regulates the industry throug During construction of the substation and the breaker switch static topsoil and subsoil will be placed in the temporary storage facility Project properties. At the substation, the construction crew will comonths. An operations building, approximately 30 m by 15 m in size, will be substation) or an existing suitable structure will be purchased/lease

### **Revised Text**

A) for 40 41 wind turbines, up to a total of 37 are proposed to be constructed

and pad mounted step-up transformers are proposed for permitting (a

ines to connect the turbines to the proposed transformer substation

g Centennial Road and Hensall Road from the proposed transformer substation <u>*i*th the</u> existing Hydro One Seaforth Transformer Station;

g: wind turbines, access roads, the electrical collection system, 115 kV proposed transformer substation <u>and breaker switch station</u>, Hydro One areas.

turbine generators with a nameplate capacity of 60 MW and pad mounted stepses).

ion to the <u>POI with the</u> Hydro One transmission system and is proposed to be northerly to the Village of Seaforth.

naintenance and operations building will be constructed on site.

1 m wide and constructed in a manner similar to the other roads described be granular base will be removed and distributed to the landowners, if desired, popropriate manner. The disturbed area will have the topsoil replaced from landowner.

storage of construction material (i.e., no turbine components).

the turbine erection is complete, the crane pad will be removed and will be

e transformer substation to the connection point at the Seaforth Transformer of-ways along Centennial Road and Hensall Road in the Municipalities of <u>e right-of-ways</u>.

to study, design and engineering by the <u>Independent</u> <del>Integrated</del> Electricity , Hydro One which owns the transmission lines, the local distribution company ough the Transmission System Code and the Distribution System Code. <u>ation</u>, topsoil and subsoils will be stripped and stockpiled separately. Stripped ity area and topsoil stripped from the substation area will be distributed on other consist of approximately 25-40 people and is expected to last for about four

I be constructed on privately held lands (i.e., on the same parcel as the eased for the purpose of monitoring the day-to-day operations of the wind energy

associated infrastructure shown on the Project Location figures.

s conducted between April and September 2012 and incorporated studies on ridor and wind energy centre study areas. The study resulted in the identification and seven historic Euro-Canadian sites. Stage 3 archaeological assessments were interest of all the Euro-Canadian sites identified through the second phase of the act Aboriginal sites were recommended for further study. The additional Stage 2 n-off on October 19, 2012.

e., historic Euro-Canadian sites) identified through Stage 2 Assessment due to

Section / Page	Original Text	Re
Section 3.2/page 21	The potential effects, mitigation measures, net effects and monitoring commitments regarding the natural heritage features, in addition to birds and bats, are evaluated in the Natural Heritage Assessment Report and the Environmental Effects Monitoring Plan and were submitted to the Ontario Ministry of Natural Resources (MNR) for review and sign-off. Sign-off from the MNR confirming that the report is satisfactory was received on March 28, 2012.	The potential effects, mitigation measures, net effects and monitoring bats, are evaluated in the Natural Heritage Assessment ( <u>NHA</u> ) Report Ontario Ministry of Natural Resources (MNR) for review and sign-off. on March 28, 2012. <u>An addendum to the NHA was submitted to the</u>
Table 6-1/ page 21	The following ten wetland units or wetland complexes were treated as significant and carried forward to the EIS: WET-01, WET-03, WET-04, WET-05, WET-06 WET-07, WET-08, WET-10, WET-12 and WET-13.	The following <u>nine</u> ten wetland units or wetland complexes were tree WET-01, WET-03, WET-04, WET-05, <del>WET-06</del> WET-07, WET-08, W
	The following 32 woodlands were determined to be significant or treated as significant and therefore carried forward to the EIS: D, E, F, G, H, K, L, M, N, O, P, Q, R, S, T, U, V, X, Y, AA, AE, AF, AH, AJ, AK, AL, AM, AO, AP, AQ, AR and AS.	The following <u>31</u> <del>32</del> woodlands were determined to be significant o H, K, L, M, N, O, P, Q, R, S, T, U, <del>V,</del> X, Y, AA, AE, AF, AH, AJ, AK
	<ul> <li>Features evaluated and determined to be significant:</li> <li>Bat maternity colonies (BMC-01, BMC-07, BMC-08 and BMC-13);</li> <li>Amphibian woodland breeding habitat (AWO-11); and</li> <li>Rare vegetation communities (RVC-01)</li> </ul>	<ul> <li>Features evaluated and determined to be significant:</li> <li>Bat maternity colonies (BMC-01, BMC-07, BMC-08 and BMC</li> <li>Amphibian woodland breeding habitat (AWO-11); and</li> <li>Rare vegetation communities (RVC-01); and</li> <li>Habitat for Bird Species of Conservation Concern (Red-headed)</li> </ul>
	<ul> <li>Features treated as significant for the purpose of this submission (a determination as to whether the mitigation measures described in the EIS will be applied will be made based on the outcome of evaluation of significance studies to be completed prior to construction):</li> <li>Reptile hibernacula (RH-01 and RH-02);</li> <li>Bat maternity colonies (BMC-02, BMC-03, BMC-10, BMC-12, and BMC-14;</li> <li>Amphibian woodland breeding habitat (AWO-03, AWO-04, AWO-05, AWO-06 and AWO-08; and</li> <li>Amphibian wetland breeding habitat (AWE-01).</li> </ul>	<ul> <li>Features treated as significant for the purpose of this submission (a will be applied will be made based on the outcome of evaluation of</li> <li>Reptile hibernacula (RH-01 and RH-02);</li> <li>Bat maternity colonies (BMC-02, BMC-03, BMC-10, BMC-12, Amphibian woodland breeding habitat (AWO-03, AWO-04, AW)</li> <li>Amphibian wetland breeding habitat (AWE-01).</li> </ul>
	The following candidate significant wildlife habitats were identified within the 120 m Area of Investigation however not within 120 m of qualifying project infrastructure, and were therefore carried forward to the EIS as <i>Generalized Candidate Significant Wildlife Habitat</i> : <ul> <li>Waterfowl nesting areas (Natural Area 537);</li> <li>Reptile hibernacula (Natural Area 541);</li> <li>Bat maternity roosts (Natural Areas 426, 439, 456, 475, 487, 488, 494, 512, 514, 520, 539,537 545, 551, 552, 555, 556 and 561);</li> <li>Amphibian woodland breeding habitat (Natural Areas 450, 463, 483, 510, 534, 537 and 541);</li> <li>Amphibian wetland breeding habitat (Natural Areas 494, 564 and 565);</li> <li>Old growth and mature forest stands (Natural Areas 456, 483, 487, 510, 514, 537, 541 and 542);</li> <li>Woodland raptor nesting habitat (Woodland Unit N);</li> <li>Seeps and springs (Natural Areas 437, 439, 463, 510, 518, 532, 534, 537 and 539);</li> <li>Marsh bird breeding habitat (Natural Area 495); and</li> <li>Habitats of species of conservation concern (numerous).</li> </ul>	The following candidate significant wildlife habitats were identified of project infrastructure, and were therefore carried forward to the EIS • Waterfowl nesting areas (Natural Area 537); • Reptile hibernacula (Natural Area 541); • Bat maternity roosts (Natural Areas 426, 439, 456, 475, 487, 4 • Amphibian woodland breeding habitat (Natural Areas 450, 463; • Amphibian wetland breeding habitat (Natural Areas 494, 564 a • Old growth and mature forest stands (Natural Areas 456, 483, • Woodland raptor nesting habitat (Woodland Unit N); • Seeps and springs (Natural Areas 437, 439, 463, 510, 518, 53; • Marsh bird breeding habitat (Natural Area 495); and • Habitats of species of conservation concern (numerous).
Section 3.2.1.2/page 23	- damage to trees at Significant Woodland Units E, F, H, K, L, M, N, O, P, Q, T, U, X, Y, AA, AE, AF, AH, AJ, AK, AM from turbine construction and Units G, K, P, U from access road construction, and Units Q,V,Y and AK from collection line construction;	- damage to trees at Significant Woodland Units E, F, H, K, L, M, N and Units G, K, P, U from access road construction, and Units Q, V,
	-habitat damage at Amphibian Woodland Breeding Habitat Features AWO-03, AWO-04, AWO-05, AWO-06, AWO-08, and AWO-11 and Amphibian Wetland Breeding Habitat Feature AWE-01 from access road construction;	-habitat damage at Amphibian Woodland Breeding Habitat Feature 12) and Amphibian Wetland Breeding Habitat Feature AWE-01 fro -Displacement and/or mortality of nursing female and juvenile bats Bat Maternity Colony Feature BMC-15: -Removal of confirmed significant cavity trees or other suitable cavity within Bat Maternity Colony Feature BMC-15: -Noise disturbance to and/or avoidance behaviour of bats during co
		-Removal of vegetation (up to 0.1 ha) within significant feature result headed Woodpecker Habitat Feature SCB-02;
		-Noise disturbance to breeding Red-headed Woodpeckers during t Feature SCB-02;
		-Loss of up to 0.5 ha of forest cover in Significant Woodland Featur directional drilling at Wetland Complexes WET-01, WET-04 and W
	directional drilling at Wetland Complexes WET-01, WET-04 and WET-05;	Soil/water contamination from spills during directional drilling at We
	Soil/water contamination from spills during directional drilling at Wetland Complexes WET-01, WET-04 and WET-05;	Disruption of amphibians moving to breeding pools and home rang patterns resulting from access road construction at Amphibian Woo
	Disruption of amphibians moving to breeding pools and home range and possible indirect threats by changes to surface water drainage	AWO-08, and AWO-11, AWO-12 and Amphibian Wetland Breeding

### Revised Text

ing commitments regarding the natural heritage features, in addition to birds and bort and the Environmental Effects Monitoring Plan and were submitted to the off. Sign-off from the MNR confirming that the report is satisfactory was received the MNR on November 2, 2012 to address the modifications to the Project. treated as significant and carried forward to the EIS: 3, WET-10, WET-12 and WET-13.

t or treated as significant and therefore carried forward to the EIS: D, E, F, G, kK, AL, AM, AO, AP, AQ, AR and AS.

/IC-13);

#### aded Woodpecker) (SCB-02).

(a determination as to whether the mitigation measures described in the EIS of significance studies to be completed prior to construction):

I2, <del>and</del> BMC-14, and <u>BMC-15</u>); AWO-05, AWO-06 <del>and</del> AWO-08 <u>and AWO-12)</u>; and

d within the 120 m Area of Investigation however not within 120 m of qualifying EIS as *Generalized Candidate Significant Wildlife Habitat*.

7, 488, 494, 512, 514, 520, <del>537</del>-539, 545, 551, 552, 555, 556 and 561); 463, 483, 510, 534, <del>537</del> and 541); 4 and 565); 33, 487, 510, 514, <del>537</del>, 541 and 542);

532, 534, <del>537</del> and 539);

N, O, P, Q, T, U, X, Y, AA, AE, AF, AH, AJ, AK, AM from turbine construction, V,Y and AK from collection line construction;

Ires AWO-03, AWO-04, AWO-05, AWO-06, AWO-08, and AWO-11 and AWOfrom access road construction;

ts resulting from vegetation clearing for transmission line construction within

avity trees resulting from vegetation clearing for transmission line construction

construction within Bat Maternity Colony Feature BMC-15: esulting in habitat damage from clearing for transmission line within Red-

g transmission line construction within Red-headed Woodpecker Habitat

tures AJ, AO and AP from clearing for the transmission line;

WET-05;

Vetland Complexes WET-01, WET-04 and WET-05;

nge and possible indirect threats by changes to surface water drainage loodland Breeding Habitat Features AWO-03, AWO-04, AWO-05, AWO-06, ling Habitat Feature AWE-01

Section / Page	Original Text	R
	patterns resulting from access road construction at Amphibian Woodland Breeding Habitat Features AWO-03, AWO-04, AWO-05, AWO-06, AWO-08, and AWO-11, and Amphibian Wetland Breeding Habitat Feature AWE-01;	Unplanned intrusion into Significant Woodland, Significant Wetland
	Ave be, and Ave 11, and Amphibian we land bleeding habitat reader Ave bit,	malfunction due to directional drilling under Significant Woodlands
	Unplanned intrusion into woodlands/wetlands in event of equipment malfunction due to directional drilling under Significant Woodlands (Units Q (two locations), V, and AK), Wetland Complexes WET-01, WET-04 and WET-05 due to directional drilling; and	WET-01, WET-04 and WET-05 and Significant Amphibian Woodlands
	(two locations), v, and Aity, vicinand complexes wer or, wer of and wer of and wer of directional anning, and	Unintended damage to adjacent vegetation due to proximity of trar
		of-way and constrained work area at Woodland Units: AL, AO, AP
	Unintended damage to adjacent vegetation due to proximity of transmission line to significant woodlands and wetlands, small size of the right-of- way and constrained work area at Woodland Units: AL, AO, AP AQ, AR, AS; and Wetland Complexes WET-05, WET-06, WET-12, and WET-13.	WET-13.
Table 3-4/page 30	Sedimentation and erosion associated with directional drilling affecting function of significant Wetland Complexes WET-01, WET 04and WET- 05.	Sedimentation and erosion associated with directional drilling affect 05.
Table 3-4/page 31	n/a	Potential Effect
		Displacement and/or mortality of nursing female and juvenile bats
		Maternity Colonies (BMC-15).
		Performance Objectives
		No displacement and/or mortality of nursing female and juvenile ba
		Mitigation Strategy
		•Prepare a tree preservation plan which identifies specific trees to
		as a bat maternity colony.
		•Tree removal will occur outside of the bat maternal period of May consulted regarding mitigation measures that may be required.
		consuled regarding miligation measures that may be required.
		Residual Effects
		•Significance of residual effects will be determined based on the r
		Monitoring Plan and Contingency Measures
		<ul> <li>Supervision of tree removal by a qualified Environmental Monitor Contingency Measures</li> </ul>
		•Any damaged trees should be pruned through implementation of
able 3-4/page 31	n/a	Potential Effect
		Removal of confirmed significant cavity trees or other suitable, but
		line construction within Bat Maternity Colony (BMC-15).
		Performance Objectives
		Successful relocation of any significant maternity colonies that material
		Mitigation Strategy
		•For each suitable cavity tree to be removed, a bat house will be in
		woodland for the affected habitat).
		<ul> <li>Details of bat box construction and placement will be provided to</li> <li>If a significant maternity colony must be removed, timing, location</li> </ul>
		successfully re-establish, and will be discussed with the MNR.
		•Tree removal will occur outside of the bat maternal period of May
		consulted regarding mitigation measures that may be required.
		•Tree removal will occur during daylight hours.
		Residual Effects
		•Significance of residual effects will be determined based on the re-
		Monitoring Plan and Contingency Measures
		•No monitoring or contingency measures required during construct

### **Revised Text**

ands woodlands/wetlands and Significant Wildlife Habitat in event of equipment ds (Units Q (two locations), VK, and AK), Significant Wetlands Complexes dland Breeding Habitat AWO-06 due to directional drilling; and

ransmission line to significant woodlands and wetlands, small size of the right-AP, AQ, AR, AS; and Wetland Complexes WET-05, WET-06, WET-12, and

ecting function of significant Wetland Complexes WET-01, WET 04 and WET-

ts resulting from vegetation clearing for transmission line construction within Bat

bats.

to be removed and whether each tree contains a cavity suitable for potential use ay 1st to July 31st, wherever possible. If this is not possible, MNR will be

results of post-construction monitoring.

or.

of proper arboricultural techniques, under supervision of an Arborist or Forester.

out not studied, cavity trees resulting from vegetation clearing for transmission

nay be removed (if applicable).

installed in the closest suitable woodland habitat (the remainder of the

o MNR for approval prior to installation. on, and bat house design will be of utmost importance for the colony to

y 1st to July 31st, wherever possible. If this is not possible, MNR will be

results of post-construction monitoring.

iction.

Section / Page	Original Text	R
Table 3-4/page 31	n/a	Potential Effect Noise disturbance to and/or avoidance behaviour of bats during co
		Performance Objectives <ul> <li>Minimize noise disturbance and/or avoidance behaviour during content</li> </ul>
		Mitigation Strategy •Tree removal will occur outside of the bat maternal period of May consulted regarding mitigation measures that may be required. •Tree removal will occur during daylight hours.
		Residual Effects <ul> <li>Disturbance avoided through timing of construction activities.</li> <li>No residual effects anticipated.</li> </ul>
		Monitoring Plan and Contingency Measures <ul> <li>No monitoring or contingency measures required.</li> </ul>
Table 3-4/page 31	n/a	Potential Effect Removal of vegetation within significant feature resulting in habitat Habitat Feature.
		Noise disturbance to breeding Red-headed Woodpeckers during to
		Feature.
		Performance Objectives •Minimize disturbance to breeding habitat.
		<ul> <li><u>•No destruction of nest site.</u></li> <li><u>•Minimize disturbance to breeding birds.</u></li> </ul>
		Mitigation Strategy <ul> <li>Schedule vegetation clearing within habitat to occur outside the b</li> </ul>
		<ul> <li>If vegetation clearing occurs during the breeding season, maintain no vegetation removal will occur. Clearly delineate habitat bounda</li> </ul>
		activities occur outside the habitat boundaries.
		<ul> <li>Minimize the area of tree removal within the natural area to the ex-</li> <li>Remove trees by hand-held equipment and drag them out of the</li> </ul>
		<ul> <li>debris to decompose naturally.</li> <li>Any vehicles used within the natural area will have wide-based ti</li> </ul>
		<ul> <li>Refer to tree planting compensation according to the afforestation</li> </ul>
		Residual Effects <ul> <li>Some (up to 0.1 ha) permanent vegetation removal within the national sector of the secto</li></ul>
		amount of habitat loss is minor and restricted to the edge of the wo
		relative to existing conditions. •Disturbance to Hooded Warbler avoided through timing of constru-
		Monitoring Plan and Contingency Measures
		Supervision of vegetation removal by a qualified Environmental M Contingency Measures
		•Any damaged trees will be pruned through implementation of prop

### **Revised Text**

construction of transmission line within Bat Maternity Colony (BMC-15).

construction.

ay 1st to July 31st, wherever possible. If this is not possible, MNR will be

at damage from clearing for transmission line within Red-headed Woodpecker

transmission line construction within Red-headed Woodpecker Habitat

breeding season of May 1 to July 31. ain a 20 m buffer around any active Red-headed Woodpecker nest within which laries (i.e. 20 m buffer) using protective fencing to ensure that construction

extent possible. e natural area to minimize soil disturbance. If possible, leave some woody

tires. Tracked vehicles will be avoided. on plan for Significant Woodland AO.

atural feature containing habitat for Red-headed Woodpecker will occur. The woodland adjacent to an existing road; this would represent a small change

ruction activities.

Monitor to limit removal of habitat to the extent possible.

oper arboricultural techniques, under supervision of an Arborist or Forester.

Section / Page	Original Text	Re
Table 3-4/page 32	n/a	Potential Effect
		Loss of up to 0.5 ha of forest cover within Significant Woodlands fro
		Performance Objectives
		No net loss of forest cover over time.
		Minimize the amount of tree removal.
		Mitigation Stratony
		•Establish an area of forest equal in area to the cleared area (up to
		local Conservation Authority). Details of the afforestation plan will the
		•Perform vegetation clearing outside of the breeding bird season (N
		mitigation measures that may be required.
		•Clearly stake area to be cleared.
		•Fell trees with a chainsaw toward the construction area to reduce a
		•Removal of tree limbs on adjacent trees being retained should be
		•Damaged tree roots will be cut clean as soon as possible and expo
		supervision of an Arborist or Forester.
		Residual Effects
		•Some clearing of vegetation will occur for the transmission line; thi
		•Loss of forest cover minimized through afforestation; however ther
		cleared forest.
		Monitoring Plan and Contingency Measures
		•Daily monitoring of areas where active vegetation removal is occur
		•Monitor establishment of planted area and replant/fill plant if requir
		Contingency Measures:
		•Any damaged trees will be pruned through implementation of prop
Section 3.3.1.1/page 32	- directional drilling activities at the following water body locations: for collection line crossings C21, C42, C20, C54, C46, C87, C52, C56, C36,	- directional drilling activities at the following water body locations: f
	C19, C28, C26, C113 (Moderate sensitivity) and C33, C27, C34, C66, C72, C83, C13, C7-A (Low sensitivity); and for collection lines within a	C46, C87, C52, C56, C36, C19, C28, C26, C113 (Moderate sensiti
	water body buffer C10-A (High sensitivity); C88, C71, C25 (Moderate sensitivity) and C112 (Low sensitivity);	for collection lines within a water body buffer C10-A (High sensitivit

### Revised Text

from clearing for transmission line.

to 0.5 ha) through tree planting and management (e.g., in partnership with a ill be provided to MNR in a Compensation Plan. (May 1 to July 31). If this is not possible, MNR will be consulted regarding

e damage to adjacent vegetation being retained. The carried out under supervision of an Arborist or Forester. This work to be carried out under

this would represent a small change relative to existing conditions. here will be a time delay for the planted area to reach the same function as the

curring by Environmental Monitor. uired (may be undertaken by partner organization).

oper arboricultural techniques, under supervision of an Arborist or Forester. s: for collection line crossings <u>C10-A (High sensitivity)</u>; C21, C42, C20, C54, sitivity) and C33, C27, C34, C66, C72, C83, C13, C7-A (Low sensitivity); <u>and</u> <del>vity);</del> C88, C71, C25 (Moderate sensitivity) and C112 (Low sensitivity);

## 4. Summary and Conclusions

The Project modifications described in this Addendum do not change the overall conclusion of the Construction Plan Report which states that "this Project can be constructed and installed without any significant adverse residual effects".