

Jericho Wind, Inc.

# Revision to the Design and Operations Report – Jericho Wind Energy Centre

#### Prepared by:

**AECOM** 

 300 – 300 Town Centre Boulevard
 905 477 8400 tel

 Markham, ON, Canada L3R 5Z6
 905 477 1456 fax

 www.aecom.com
 905 477 1456 fax

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## **Table of Contents**

		page
1. I	Introduction	1
	1.1 The Proponent	1 1
2. I	Proposed Project Modifications	2
3. I	Edits to the Design and Operations Report	10
4.	Summary and Conclusions	16
	Figures 2-1 Modified Project Location	9
List of	Tables	
Table 2-	1 Summary of Project Modifications	
Table 3-	1 Edits to the Design and Operations Report	11

## **List of Appendices**

Appendix A.	Project Modifications
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Appendix B. Revised Figures for the Design and Operations Report

Appendix C. Revised Noise Assessment Report

Appendix D. Revised Site Plan

Appendix E. Memo Update to the Parcel Boundary Setback Reduction Analysis

## **Glossary of Terms**

EIS	Environmental Impact Study
MNR	Ontario Ministry of Natural Resources
NextEra	NextEra Energy Canada, ULC
NHA	Natural Heritage Assessment
The Project	Jericho Wind Energy Centre
REA	Renewable Energy Approval

#### 1. Introduction

Jericho Wind, Inc. (Jericho) is proposing to construct a wind energy project in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in the Municipality of North Middlesex, in Middlesex County, Ontario. The following sections of this Renewable Energy Approval (REA) Revision Report describe the proposed modifications to this Project and resulting updates to the Design and Operations Report.

#### 1.1 The Proponent

The Project will be owned and operated by Jericho, a wholly owned subsidiary of NextEra Energy Canada, ULC (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
Ross D. Groffman Director, Development NextEra Energy Canada, ULC 390 Bay Street, Suite 1720 Toronto, Ontario, M5H 2Y2	Marc Rose Senior Environmental Planner AECOM 300-300 Town Centre Blvd. Markham, Ontario L3R 5Z6
Phone:416.364.9714 Email:Jericho.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 the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in the Municipality of North Middlesex, in Middlesex County, Ontario (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:

#### **UTM Coordinates**

Easting	Northing
420938	4761752
419681	4780912
456597	4777307
453312	4766484

## 2. Proposed Project Modifications

Jericho is proposing modifications to the Project. These proposed Project modifications are categorized as follows:

- Construction disturbance area modified to reduce or eliminate impacts to archaeological resources;
- New infrastructure or construction disturbance area added or changed to optimize project design/ constructability;
- Turbine and associated infrastructure removed.

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 (please note that most of the mitigation measures were previously identified in the original REA submission, and that new mitigation measures are shown in *italicized bold* in the table).

**Figure 2-1** illustrates the modified Project Location. **Appendix A** contains a series of figures showing the details for each of the modifications.

Label on				New Mitigation Measures
Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	(Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
A1		Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Natural Heritage:  Access road is 24 m from a new Rare Vegetation Community Feature RVC-05 not previously described in the NHA. There are no potential effects to this feature associated with the access road during operation.  Access road and collection line are within 120 m of new Generalized Candidate Significant Wildlife Habitat Feature (Insect Species of Conservation Concern Habitat, Plant Species of Conservation Concern Habitat, and Red-headed Woodpecker Habitat) in Natural Area 290, not previously described in the NHA. There are no potential effects on this feature associated with the access road and collection line during operation.	Natural Heritage:  N/A
			Water Bodies:     Effects associated with new crossing of a water body (Feature ID R4.16-D) include:     Increase in impervious surfaces from presence of turbine foundation and access roads, resulting in increased water temperatures, increased surface runoff and stream peak flows, and reduced infiltration, base flows and upwelling.     Soil/water contamination by oils, grease and other materials from accidental spills and release of contaminants from equipment.     Obstruction of lateral flows in watercourses and other water bodies due to design of culverts and debris build-up at water crossings.	<ul> <li>Develop and implement an erosion and sediment control plan.</li> <li>Develop a spill response plan.</li> <li>Control soil / water contamination through best management practices.</li> <li>Design culverts to accommodate high flows of the watercourse.</li> <li>Inspect culverts during routine maintenance activities for buildup of debris.</li> </ul>
A2		Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
A3		Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
A4		Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
A5	Removal of access road and collection line to Turbine 24, addition of access road disturbance area between Turbine 22 and Turbine 24 and relocation of collection line to the access road disturbance area for Turbine 22.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
A6	·	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
A7	Removal of Turbine 5 and associated access road and collection line.	Turbine and associated infrastructure removed.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
B1	Relocation of Turbine 7 and associated construction disturbance area 148 m to the east.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
B2	Addition of collection line in Gordon Road right-of-way, north of the road to Turbine 27.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Natural Heritage: Collection line is within 120 m of new Generalized Candidate Significant Wildlife Habitat Feature (Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat) in Natural Area 233, not previously described in the NHA. There are no potential effects on this feature associated with the collection line during operation.	Natural Heritage:  ■ N/A
В3	Removal of Turbine 31 and associated access road and collection line.	Turbine and associated infrastructure removed.	Natural Heritage:  • Amphibian Woodland Breeding Habitat Feature AWO-16 in Natural Area 250 was changed to Generalized Candidate Significant Wildlife Habitat because it is more than 120 m away from a proposed access road. There are no potential effects on this feature associated with operation of the project.	N/A
B4		Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A

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Revision to the Design and Operations
Report – Jericho Wind Energy Centre

### Table 2-1 Summary of Project Modifications

Label on	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures
Figure 2-1	1			(Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
C1	Relocation of Turbine 26 and associated construction disturbance area 101 m east. Access road relocated to travel north through the substation construction disturbance area and collection line relocated to the southern property boundary; and addition of construction disturbance area in Thompson Line right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	include:	<ul> <li>Water Bodies:</li> <li>Locate facilities where contaminants are handled at least 30 m away from water bodies.</li> <li>Develop and implement an erosion and sediment control plan.</li> <li>Develop a spill response plan.</li> <li>Control soil / water contamination through best management practices.</li> </ul>
				<ul> <li>Natural Heritage:</li> <li>For operation of the access road within &gt;0.1 m of Amphibian Woodland Breeding Habitat Feature AWO-22:</li> <li>Advise operations staff to avoid driving roads in proximity to this feature at night between April 1 and June 30, and any rainy nights from spring to early autumn, wherever possible.</li> <li>Maintain wildlife crossing signs and limit speed of vehicles near crossings (30 km/hr).</li> <li>Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if feature determined to be significant) by a qualified Biologist, using the protocol described in Section 4.3.2.1 of the NHA.</li> <li>Report the findings of post-construction monitoring to MNR on an annual basis for the first 3 years of operation.</li> <li>Contingency Measure: If significant declines or disappearance of species is detected, determine whether likely to have been caused by the Project. If so,</li> </ul>
			operation.	corrective measures will be taken, to be determined through consultation with MNR.
C2		Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
C3		Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
C4		Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	No new potential environmental effects as the transformer will be used as a backup for the primary transformer.	N/A
D1	Addition of construction disturbance area in the Northville Road right-of-way in two locations for collection line between Turbines 45 and 46.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
D2	Removal of a portion of construction disturbance area for access road and collection line to Turbine 56.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
D3	Relocation of Turbine 46 access road to travel north from Cedar Point Line and collection to travel east along the southern property boundary; and addition of construction disturbance area for collection line in the Northville Road right-of-way.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	Water Bodies:  • Effects associated with water body present in 120 m buffer for access road and collection line (Feature ID R4E and R4D) include:  • Increase in impervious surfaces from presence of access road, resulting in increased water temperatures, increased surface runoff and stream peak flows, and reduced infiltration, base flows and upwelling.	N/A
D4		Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Natural Heritage:  Turbine construction disturbance area is within 120 m of a new Generalized Candidate Significant Wildlife Habitat Feature (Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat) in Natural Area 145, not previously described in the NHA. There are no potential effects on this feature associated with operation of the turbine.	N/A
D5		Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
D6	Addition of transmission line construction disturbance area on private property to allow for transmission line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host collection line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A

<sup>1.</sup> Additional field studies are required to evaluate the significance of this feature. For the purposes of this submission, this feature has been treated as significant and potential effects, mitigation measures and monitoring commitments related to this feature are described. However, these will only be implemented if the feature is deemed to be significant based on the results of pre-construction surveys.

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Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures (Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
D7	Addition of collection line disturbance area on private property to allow for collection line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host the transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
D8	Addition of collection line disturbance area on private property to allow for collection line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host the transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
D9	Addition of collection line disturbance area on private property to allow for collection line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host the transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
D10	Relocation of transmission line construction disturbance area within natural areas located in the Thompson Line right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Natural Heritage:     The transmission line is proposed in Significant Woodland Feature WOD-201. New potential effects on this feature associated with the transmission line during operation include:     Risk of soil or water contamination from oil, gas, etc. during maintenance activities.	Natural Heritage:     For operation of the transmission line within Significant Woodland Feature WOD-201:     Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of significant woodland.     Contingency Measure: Report the details of the spill to MOE, including a description of any assessment and remediation undertaken.
E1	Removal of Turbine 77 and associated access road and collection line / Removal and addition of portions of construction disturbance area for access road and collection line to Turbines 78, 79 and 107.	Turbine and associated infrastructure removed / Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
E2	Addition of Turbine 107 and associated access road and collection line, extending south from Turbine 79.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
E3		Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
E4	Addition of construction disturbance area on private property to the north of Thompson Line to allow for installation of collection line and/or transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
E5	Relocation of transmission line construction disturbance area within natural areas located in the Thompson Line road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
E6	Relocation of transmission line construction disturbance area within natural areas located in the Thompson Line/Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Natural Heritage:  The transmission line is proposed in Significant Wetland Feature WET-050. New potential effects on this feature associated with the transmission line during operation include:  Trimming of branches or selective tree removal during routine maintenance of the transmission line in Significant Wetland WET-050.	<ul> <li>consulted regarding mitigation measures that may be required.</li> <li>Remove trees or tree limbs by hand-held equipment within Significant Wetland to minimize soil compaction.</li> <li>Fell trees with a chainsaw away from the Significant Wetland to reduce damage to adjacent vegetation being retained.</li> <li>Carry out removal of tree limbs under supervision of an Arborist or Forester.</li> <li>Leave tree stumps and roots in place, to minimize disturbance to adjacent vegetation.</li> <li>Contingency Measure: Any damaged trees will be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist or Forester.</li> </ul>
F1	Removal of a portion of construction disturbance area for access road and collection line to Turbine 43.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A

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Revision to the Design and Operations
Report – Jericho Wind Energy Centre

### Table 2-1 Summary of Project Modifications

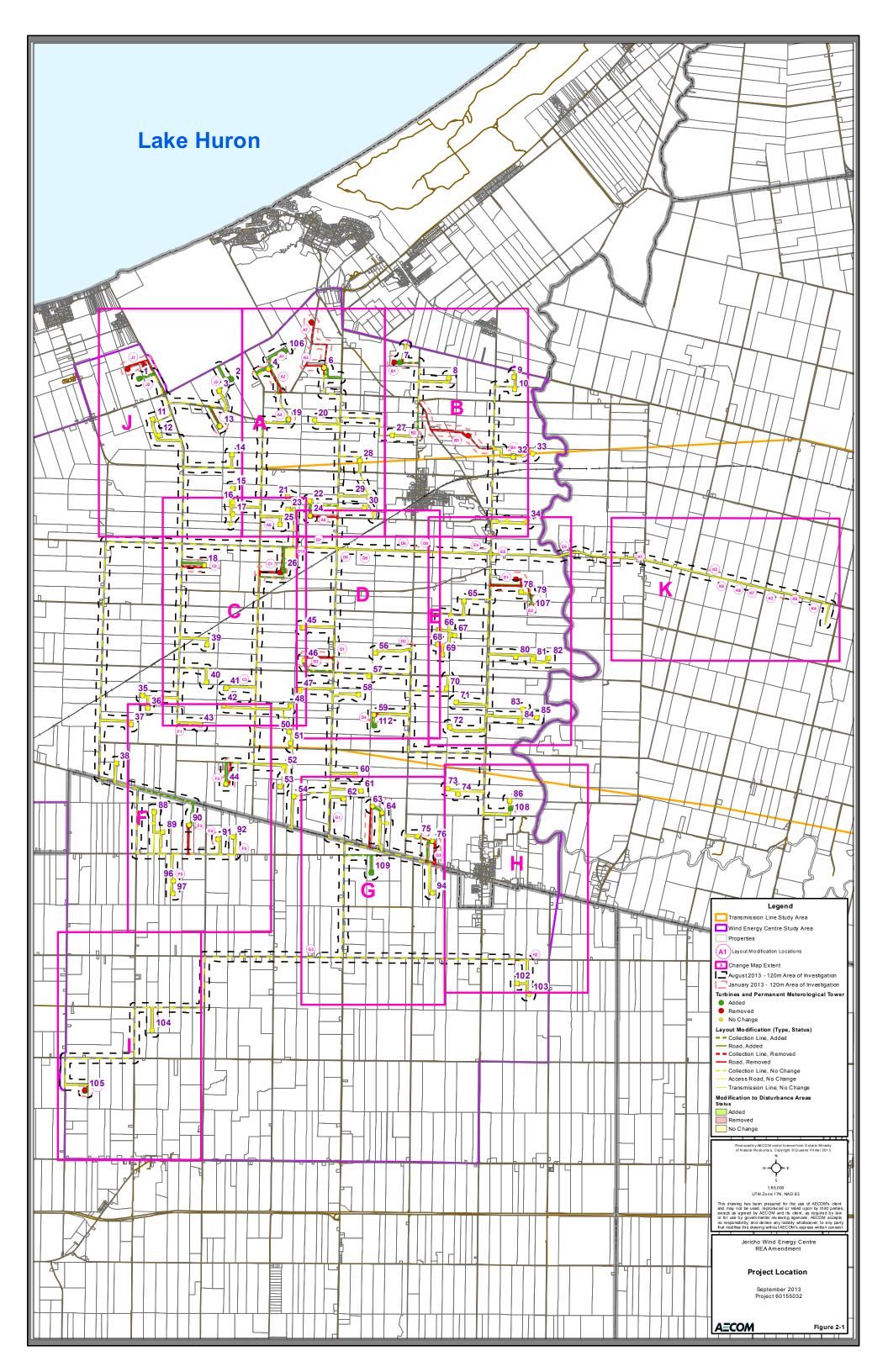
Label on	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures
Figure 2-1	1 roposed modification	Rationale for 1 roposed modification	New Fotential Environmental Enects	(Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
F2	Relocation of Turbine 44 access road 32 m to the west.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	<ul> <li>Natural Heritage:         <ul> <li>Access road is 41 m from a new Significant Woodland Feature WOD-011, not previously described in the NHA. There are no potential effects to this feature associated with the access road during operation.</li> </ul> </li> <li>Access road is within 120 m of new Generalized Candidate Significant Wildlife Habitat Feature (Plant Species of Conservation Concern Habitat) in Natural Area 117, not previously described in the NHA. There are no potential effects on this feature associated with the access road during operation.</li> <li>Access road is within 120 m of new Generalized Candidate Significant Wildlife Habitat Feature (Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat) in Natural Area 383, not previously described in the NHA. There are no potential effects on this feature associated with the access road during operation.</li> </ul>	N/A
		Construction disturbance area modified to reduce or eliminate impacts to	Natural Heritage:	
	to the north, extending to Townsend Line and addition of collection line in the Townsend Line right-of-way.	archaeological resources.	,	<ul> <li>Natural Heritage:</li> <li>For operation of the access road within &gt;0.1 m of Significant Woodland Feature WOD-097:</li> <li>Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of significant woodland.</li> <li>Contingency Measure: Report the details of the spill to MOE, including a description of any assessment and remediation undertaken.</li> <li>For operation of the access road within 5 m of Reptile Hibernaculum Feature RH-05:</li> <li>Advise operations staff to take extra care while driving access roads near feature RH-05.</li> <li>Erect long term drift fence between edge of habitat and road if hibernaculum determined to be large (&gt;25 snakes).</li> <li>Conduct reptile hibernaculum surveys annually for 2 years post-construction to assess any potential changes in snake populations or species composition using protocol described for pre-construction survey (if features determined to be significant) by a qualified Biologist.</li> <li>Report the findings of the reptile hibernaculum monitoring program to MNR on an annual basis for the first 2 years of operation.</li> <li>Contingency Measures: If significant declines or disappearance of species is detected, determine whether likely to have been caused by the Project. If so, corrective measures will be taken, to be determined through consultation with MNR.</li> </ul>
F4		Infrastructure or construction disturbance area added or changed to optimize	, , , , , , , , , , , , , , , , , , , ,	N/A
F5	m to the west.  Removal of a portion of construction disturbance area	project design/ constructability.  Construction disturbance area modified to reduce or eliminate impacts to	previously studied for cultural heritage.  None – no new natural heritage or water body features within 120 m; area	N/A
	for access road and collection line to Turbine 92.	archaeological resources.	previously studied for cultural heritage.	
F6	Removal of a portion of construction disturbance area for access road and collection line to Turbines 96 and 97.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
	Addition of Turbine 62 construction disturbance area to the west and addition of collection line disturbance area in two locations in the Northville Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
G2	Removal of the road and collection line to Turbine 63 and addition of road and collection line, extending west from Turbine 64 to Turbine 63.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.		<ul> <li>Natural Heritage:</li> <li>For operation of the access road within 20 m of Significant Wetland Feature WET-063:</li> <li>Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of significant wetland.</li> <li>Contingency Measure: Report the details of the spill to MOE, including a description of any assessment and remediation undertaken.</li> <li>For operation of the access road within 9 m of Amphibian Woodland Breeding Habitat Feature AWO-04:</li> <li>Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if feature determined to be significant) by a qualified Biologist, using the protocol described in Section 4.3.2.1 of the NHA.</li> <li>Report the findings of post-construction monitoring to MNR on an annual basis for the first 3 years of operation.</li> </ul>

<sup>2.</sup> Additional field studies are required to evaluate the significance of this feature. For the purposes of this submission, this feature has been treated as significant and potential effects, mitigation measures and monitoring commitments related to this feature are described. However, these will only be implemented if the feature is deemed to be significant based on the results of pre-construction surveys.

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Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures (Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
G3	Removal of collection line construction disturbance area north of Birnam Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
G4	Relocation of collection line between Turbines 76 and 75 20 m to the south.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
G5	Relocation of Turbine 76 access road and collection line 134 m to the west.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
G6	Addition of Turbine 109 and associated construction disturbance area, access road and collection line; addition of collection line in Hickory Creek Line right-ofway.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Water Bodies:     Effects associated with water body present within 120m buffer of turbine (Feature ID 9.29-F) include:     Increase in impervious surfaces from presence of turbine foundation, resulting in increased water temperatures, increased surface runoff and stream peak flows, and reduced infiltration, base flows and upwelling.	N/A
H1	Addition of Turbine 108 and associated construction disturbance area.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
H2	Relocation of collection line from private property to Birnam Line right-of-way.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
I1	Relocation of Turbine 105 20 m to the south and addition of construction disturbance area.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.		N/A
J1	Removal of Turbine 2 and associated access road and collection line.	Turbine and associated infrastructure removed		N/A
J2	Relocation of Turbine 1 and associated construction disturbance area, access road and collection line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.		
J3	Addition of Turbine 2 and associated construction disturbance area, access road and collection line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	<ul> <li>Turbine construction disturbance area is 30 m from a new Significant Woodland Feature WOD-265, not previously described in the NHA. New potential effects associated with the turbine during operation include:         <ul> <li>Risk of soil or water contamination from oil, gas, etc. during maintenance activities.</li> </ul> </li> <li>Turbine construction disturbance area is within 120 m of new Generalized Candidate Significant Wildlife Habitat Feature (Plant Species of Conservation Concern Habitat, and Red-headed Woodpecker Habitat) in Natural Area 293, not previously described in the NHA. There are no potential effects on this feature associated with operation of the turbine.</li> <li>Water Bodies:</li> <li>Effects associated with new crossing of a water body (Feature ID R4-J) include:         <ul> <li>Increase in impervious surfaces from presence of turbine foundation and access roads, resulting in increased water temperatures, increased surface runoff and stream peak flows, and reduced infiltration, base flows and upwelling.</li> </ul> </li> </ul>	
J4	Relocation of Turbine 13 construction disturbance area 14 m south west.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
K1		Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.		N/A
K2		Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A

Label on Figure 2-1	Proposed Modification	Rationale for Proposed Modification	New Potential Environmental Effects	New Mitigation Measures (Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
К3	Addition of transmission line construction disturbance area on private property to the south of Elginfield Road, east of Roddick Road.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
K4	Addition of transmission line construction disturbance area on private property to the south of Elginfield Road, west of Kerwood Road.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
K5	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Natural Heritage:     The transmission line is proposed in Significant Woodland Feature WOD-181. New potential effects associated with transmission line operation in this feature include:     Risk of soil or water contamination from oil, gas, etc. during maintenance activities.	Natural Heritage:     For operation of the transmission line within Significant Woodland Feature WOD-181:     Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of significant woodland.     Contingency Measure: Report the details of the spill to MOE, including a description of any assessment and remediation undertaken.
K6	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A
К7	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	Natural Heritage:     The transmission line is proposed in Significant Woodland Feature WOD-175. New potential effects associated with transmission line operation in this feature include:     Risk of soil or water contamination from oil, gas, etc. during maintenance activities.	Natural Heritage:     For operation of the transmission line within Significant Woodland Feature WOD-175:     Develop and implement an emergency spills plan outlining steps to contain any spills during maintenance activities to avoid contamination of significant woodland.     Contingency Measure: Report the details of the spill to MOE, including a description of any assessment and remediation undertaken.
К8	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.	None – no new natural heritage or water body features within 120 m; area previously studied for cultural heritage.	N/A



#### **Edits to the Design and Operations Report** 3.

Table 3-1 documents the edits to the Design and Operations Report resulting from the modifications described above. The table includes the text from the original REA submission and edits to the text (underlined text represents additions and strikethrough text represents deletions). Updated figures are included in Appendix B of this Revision Report. An updated Noise Assessment Report, Site Plan, and Parcel Boundary Setback Reduction Analysis have been included in this Revision Report as Appendix C, Appendix D, and Appendix E respectively.

Section / Page	Original Text	Revised Text  ( <u>Underlined text</u> represents additions and <del>strikethrough text</del> represents deletions.  Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
Section 2 / page 5	The proposed Project Location is shown on Figures 2-1, 2-2 and 2-3, and includes the components of the Project listed below:	The proposed Project Location is shown on Figures 2-1, 2-2 and 2-3, and includes the components of the Project listed below:
	97 GE 1.6-100 Wind Turbine generator locations and pad mounted step-up transformers (however, only approximately 92 turbines will ultimately be constructed);	97 99 GE 1.6-100 Wind Turbine generator locations and pad mounted step-up transformers (however, only approximately 92 turbines will ultimately be constructed);
Section 3.1 / page 10	Although Jericho Wind, Inc. is seeking an REA for up to 97 turbine locations, approximately 92 turbines are proposed to be constructed for the Project.	Although Jericho Wind, Inc. is seeking an REA for up to 97 99 turbine locations, approximately 92 turbines are proposed to be constructed for the Project.
Section 3.5 / page 11	The substation equipment is expected to include an isolation switch, a circuit breaker, a step-up transformer, transmission switch gear, control housing, instrument transformers, grounding and metering equipment.	The substation equipment is expected to include an isolation switch, a circuit breaker, a <u>primary and backup</u> step-up transformer, transmission switch gear, control housing, instrument transformers, grounding and metering equipment.
Section 6.1 / page 17	The potential effects, mitigation measures, residual effects and monitoring commitments regarding the natural heritage features (including significant wetlands, woodlands, and wildlife habitat) were identified and evaluated in the Natural Heritage Assessment Report and Environmental Impact Study (AECOM, 2013c) based on the <i>Natural Heritage Assessment Guide for Renewable Energy Projects</i> (Government of Ontario, 2012) and submitted to the Ontario Ministry of Natural Resources (MNR) for review and sign-off.	The potential effects, mitigation measures, residual effects and monitoring commitments regarding the natural heritage features (including significant wetlands, woodlands, and wildlife habitat) were identified and evaluated in the Natural Heritage Assessment Report and Environmental Impact Study (NHA and EIS) Report (AECOM, 2013c) based on the Natural Heritage Assessment Guide for Renewable Energy Projects (Government of Ontario, 2012) and submitted to the Ontario Ministry of Natural Resources (MNR) for review and sign-off. AECOM also prepared two NHA and EIS Report Addenda in respect to refinements to the Project Location proposed after the original submission of the NHA and EIS to MNR. The MNR issued confirmation and re-confirmation letters on February 7, 2013 for the NHA and EIS Report as well as the two Addenda.  AECOM subsequently prepared a third Addendum to the NHA and EIS, to address modifications to the Project Location proposed after MNR confirmation, which was submitted to MNR on August 19, 2013.
Table 6-1 / page 18	Wetlands	Wetlands
	29 wetland complexes were treated as significant and carried forward to the EIS.	29 28 wetland complexes were treated as significant and carried forward to the EIS.
	Significant Wildlife Habitat The following Significant Wildlife Habitat features were determined to be significant within the 120 m Area of Investigation and within 120 m of qualifying Project infrastructure, and were therefore carried forward to the EIS:  Bat Maternity Colonies; Rare Vegetation Communities; Habitat for Plant Species of Conservation Concern (multiple); and Habitat for Bird Species of Conservation Concern (Hooded Warbler).	Significant Wildlife Habitat  The following Significant Wildlife Habitat features were determined to be significant within the 120 m Area of Investigation and within 120 m of qualifying Project infrastructure, and were therefore carried forward to the EIS:  Bat Maternity Colonies; Rare Vegetation Communities; Turtle Wintering Areas; Habitat for Plant Species of Conservation Concern (multiple); and
	Thabitat for Bird openies of consorvation concern (Hocaed Warster).	Habitat for Bird Species of Conservation Concern (Hooded Warbler).
	The following features were treated as Significant Wildlife Habitat for the purpose of this submission and carried forward to the EIS (in some cases, a determination as to whether the mitigation measures described in the EIS will be applied will be made based on the outcome of preconstruction surveys):	The following features were treated as Significant Wildlife Habitat for the purpose of this submission and carried forward to the EIS (in some cases, a determination as to whether the mitigation measures described in the EIS will be applied will be made based on the outcome of preconstruction surveys):
	<ul> <li>Waterfowl Stopover and Staging Areas (terrestrial);</li> <li>Waterfowl Stopover and Staging Areas (aquatic);</li> <li>Raptor Wintering Area;</li> <li>Bat Maternity Colonies;</li> <li>Turtle Wintering Areas;</li> <li>Reptile Hibernacula;</li> <li>Deer Winter Congregation Areas;</li> <li>Bald Eagle and Osprey Nesting, Foraging, and Perching Habitat;</li> <li>Woodland Raptor Nesting Habitat;</li> <li>Turtle Nesting Habitat;</li> <li>Seeps and Springs;</li> <li>Amphibian Woodland Breeding Habitat;</li> <li>Amphibian Wetland Breeding Habitat;</li> <li>Woodland Area-sensitive Bird Breeding Habitat; and</li> <li>Amphibian Movement Corridors.</li> </ul>	<ul> <li>Waterfowl Stopover and Staging Areas (terrestrial);</li> <li>Waterfowl Stopover and Staging Areas (aquatic);</li> <li>Raptor Wintering Area;</li> <li>Bat Maternity Colonies;</li> <li>Turtle Wintering Areas;</li> <li>Reptile Hibernacula;</li> <li>Deer Winter Congregation Areas;</li> <li>Bald Eagle and Osprey Nesting, Foraging, and Perching Habitat;</li> <li>Woodland Raptor Nesting Habitat;</li> <li>Turtle Nesting Habitat;</li> <li>Seeps and Springs;</li> <li>Amphibian Woodland Breeding Habitat;</li> <li>Amphibian Wetland Breeding Habitat;</li> <li>Woodland Area-sensitive Bird Breeding Habitat; and</li> <li>Amphibian Movement Corridors.</li> </ul>

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Section / Page	Original Text	( <u>Underlined text</u> represents additions and <del>strikethrough text</del> represents deletions.  Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )
Table 6-2 / page 21		Potential Effect Trimming of branches or selective tree removal during routine maintenance of the transmission line in Significant Wetlands WET-050 and WET-
1		078.
		Performance Objective
		Minimize disturbance to wetland form and function.
		Mitigation Strategy
		Minimize vegetation removal in Significant Wetland, to the extent possible.
		<ul> <li>Perform routine vegetation clearing outside of the breeding season for birds and amphibians (March 15 to July 31). If this is not possible, MNR will be consulted regarding mitigation measures that may be required.</li> </ul>
		<ul> <li>Remove trees or tree limbs by hand-held equipment within Significant Wetland to minimize soil compaction.</li> </ul>
		• Fell trees with a chainsaw away from the Significant Wetland to reduce damage to adjacent vegetation being retained.
		Carry out removal of tree limbs under supervision of an Arborist or Forester.  Laws tree attended in place to minimize disturbance to adjacent unpotation.
		Leave tree stumps and roots in place, to minimize disturbance to adjacent vegetation.
		Residual Effects
		Minimal clearing of vegetation will occur for operation of the transmission line.
		Minimal residual effects.
		Monitoring Plan and Contingency Measures
		No monitoring required.
		<ul> <li>Contingency Measures:</li> <li>Any damaged trees will be pruned through implementation of proper arboricultural techniques, under supervision of an Arborist</li> </ul>
		or Forester.
Table 6-2 / page 21		Potential Effect
		Trimming of branches or selective tree removal for construction of the transmission line in Significant Wetlands WET-050 and WET-078 within
		road right-of-way.
		Performance Objective
		No loss of wetland cover over time.
		Mitigation Strategy
		Restore disturbed areas using suitable native wetland plant species. A Restoration Plan will be provided to MNR.
		Residual Effects  • Some clearing of vegetation will occur for the transmission line; this will be minimal and limited to the road right-of-way.
		Minimal residual effects.
		Monitoring Plan and Contingency Measures  • Conduct post-planting inventory of restored area to determine success of establishment.
		Contingency Measures:
		If restored area is not establishing for any number of reasons, implement additional restoration measures including re-planting
		and additional monitoring.
Table 6-2 / page 21	Potential Effect  Loss of forest sever (up to 0.16 he, representing 0.000% of weedlend erec) through vegetation eleging in Significant Weedlend for construction of	Potential Effect    Compared to the control of the
	Loss of forest cover (up to 0.16 ha, representing 0.008% of woodland area) through vegetation clearing in Significant Woodland for construction of access roads.	f Loss of forest cover (up to 0.1649 ha, representing 0.008% of woodland area) through vegetation clearing in Significant Woodlands for construction of access roads and the transmission line.
	Mitigation Strategy	Mitigation Strategy
	<ul> <li>Establish an area of forest equal in area to the cleared area (0.16 ha) through tree planting and management (e.g., in partnership with a local Conservation Authority). Details of the afforestation plan will be provided to MNR in a Compensation Plan.</li> </ul>	• Establish an area of forest equal in area to the cleared area (0.4649 ha) through tree planting and management (e.g., in partnership with a local Conservation Authority). Details of the afforestation plan will be provided to MNR in a Compensation Plan.
	Sometivation Adminity). Details of the anorestation plan will be provided to write in a compensation real.	local conservation Authority). Details of the anorestation plan will be provided to white this a compensation in lan.

Section / Page	Original Text	Revised Text  ( <u>Underlined text</u> represents additions and strikethrough text represents deletions.  Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )				
Table 6-2 / page 21	Potential Effect Avoidance by Tundra Swans of stopover and staging habitat during migration due to proximity of Turbines 5 and 9 to Waterfowl Stopover and Staging Areas.	Potential Effect Avoidance by Tundra Swans of stopover and staging habitat during migration due to proximity of Turbines 5 and 9 to Waterfowl Stopover and Staging Areas.				
	Performance Objective  • Minimize disturbance or disruption to Tundra Swan stopover and staging habitats.	Performance Objective  • Minimize disturbance or disruption to Tundra Swan stopover and staging habitats.				
	Mitigation Strategy  Turbine 5 (305 m from WSST-31, or 5 m from 300 m† buffer):  Implement contingency mitigation measures (as per consultation with MNR) if disturbance effects are detected through post-construction monitoring.	Mitigation Strategy  Turbine 5 (305 m from WSST-31, or 5 m from 300 m† buffer): Implement contingency mitigation measures (as per consultation with MNR) if disturbance effects are detected through post-construction monitoring.				
	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years of post-construction Tundra Swan monitoring at Features WSST-31 and WSST-37 (if determined to be significant) by a qualified Biologist using the protocol described in the NHA, including:</li> </ul>	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years of post-construction Tundra Swan monitoring at Features WSST-31 and WSST-37 (if determined to be significant) by a qualified Biologist using the protocol described in the NHA, including:</li> </ul>				
Table 6-2 Footer / page 21	The area of the flooded field habitat plus a 100 m to 300 m radius buffer, dependant on local site conditions and adjacent land use, is the Significant Wildlife Habitat as per the Draft Ecoregion 7E Criterion Schedule Addendum to the Significant Wildlife Habitat Technical Guide (MNR, 2012). Therefore, the buffer area may be reduced to 100 m following the completion of pre-construction surveys, as described in the Natural Heritage Assessment and Environmental Impact Study Report (AECOM, 2013).	The area of the flooded field habitat plus a 100 m to 300 m radius buffer, dependant on local site conditions and adjacent land use, is the Significant Wildlife Habitat as per the Draft Ecoregion 7E Criterion Schedule Addendum to the Significant Wildlife Habitat Technical Guide (MNR, 2012). Therefore, the buffer area may be reduced to 100 m following the completion of pre-construction surveys, as described in the Natural Heritage Assessment and Environmental Impact Study Report (AECOM, 2013).				
Table 6-2 / page 22	Potential Effect Risk of Tundra Swan collisions with Turbines 5 and 9 near Waterfowl Stopover and Staging Areas.	Potential Effect Risk of Tundra Swan collisions with Turbines 5 and 9 near Waterfowl Stopover and Staging Areas.				
	<ul> <li>Residual Effects</li> <li>Risk of Tundra Swan collisions with Turbines 5 and 9 minimized through application of mitigation measures.</li> <li>Significance of residual effects will be determined based on the results of post-construction monitoring.</li> </ul>	Residual Effects  Residual Effects  Risk of Tundra Swan collisions with Turbines 5 and 9 minimized through application of mitigation measures.  Significance of residual effects will be determined based on the results of post-construction monitoring.				
	Monitoring Plan and Contingency Measures  Include Turbines 5 and 9 in post-construction mortality monitoring (as described above).	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Include Turbines 5 and 9 in post-construction mortality monitoring (as described above).</li> </ul>				
Table 6-2 / page 24	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years of post-construction monitoring for Feature BMA-147, BMA-051, BMA-090B, BMA-098, BMA-102B, BMA-120, BMA-145, BMA-179, BMA-188, BMA-214, and BMA-297 (if determined to be significant) according to protocol described for pre-construction survey (as described in July 2011 version of Bats and Bat Habitats: Guidelines for Wind Power Projects) including:</li> </ul>	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years of post-construction monitoring for Feature BMA-147, BMA-051, BMA-090B, BMA-098, BMA-102B, BMA-120, BMA-145, BMA-179, BMA-188, and BMA-214, and BMA-297 (if determined to be significant) according to protocol described for pre-construction survey (as described in July 2011 version of Bats and Bat Habitats: Guidelines for Wind Power Projects) including:</li> </ul>				
Table 6-2 / page 24	Mitigation Strategy  Maintain wildlife crossing signs and limit speed of vehicles near turtle wintering areas (30 km/hr).	<ul> <li>Mitigation Strategy</li> <li>Maintain wildlife crossing signs and limit speed of vehicles near turtle wintering areas (30 km/hr) along access roads within 120 m of Significant Turtle Wintering Areas.</li> </ul>				
Table 6-2 / page 25		Potential Effect Increased access for poaching in Turtle Wintering Areas as result of access roads.				
		Performance Objective  Avoid increased access for poaching during operation.				
		Mitigation Strategy  • Install a gate on access roads that are within 120 m of Significant Turtle Wintering Areas to prevent public access.				
		<ul> <li>Residual Effects</li> <li>Potential increased access for poaching minimized through the application of mitigation measures.</li> <li>Low likelihood of poaching as access roads are located in agricultural fields on private property.</li> </ul>				
		Monitoring Plan and Contingency Measures  No monitoring or contingency measures required.				

Section / Page	Original Text	Revised Text  ( <u>Underlined text</u> represents additions and strikethrough text represents deletions.  Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )				
Table 6-2 / page 25		Potential Effect Possible mortality to turtles nesting on side of access roads.  Performance Objective • Prevent mortality of nesting turtles during operation.  Mitigation Strategy				
		<ul> <li>Construct access roads that are within 120 m of Significant Turtle Wintering Areas designed using materials that are not suitable for turtle nesting.</li> <li>Residual Effects</li> <li>Possible mortality to nesting turtles on side of access roads minimized through application of mitigation measures.</li> <li>Low likelihood of mortality due to lack of suitable habitat on side of access roads.</li> </ul>				
		<ul> <li>Monitoring Plan and Contingency Measures</li> <li>No monitoring or contingency measures required.</li> </ul>				
Table 6-2 / page 25	<ul> <li>Mitigation Strategy</li> <li>Advise operations staff to take extra care while driving access roads near features RH-01, RH-03, and RH-04.</li> <li>Erect long term drift fence between edge of habitat (RH-01, RH-03, or RH-04) and road if hibernaculum determined to be large (&gt;25 snakes).</li> <li>Monitoring Plan and Contingency Measures</li> </ul>	<ul> <li>Mitigation Strategy</li> <li>Advise operations staff to take extra care while driving access roads near features RH-01, RH-03,-and RH-04, and RH-05.</li> <li>Erect long term drift fence between edge of habitat (RH-01, RH-03,-or RH-04, or RH-05) and road if hibernaculum determined to be large (&gt;25 snakes).</li> </ul>				
	<ul> <li>Conduct reptile hibernacula surveys at reptile hibernacula within 120 m of access roads (RH-01, RH-03, and RH-04 if determined to be significant) annually for 2 years post-construction to assess any potential changes in snake populations or species composition using protocol described for pre-construction survey (if features determined to be significant) by a qualified Biologist, including:</li> </ul>	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct reptile hibernacula surveys at reptile hibernacula within 120 m of access roads (RH-01, RH-03, and RH-04, and RH-05 if determined to be significant) annually for 2 years post-construction to assess any potential changes in snake populations or species composition using protocol described for pre-construction survey (if features determined to be significant) by a qualified Biologist, including:</li> </ul>				
Table 6-2 / page 26	Potential Effect Risk of road mortality to turtles moving between nesting habitats and other areas resulting from access road operation near Turtle Nesting Habitat.	Potential Effect Risk of road mortality to turtles moving between nesting habitats and other areas resulting from access road operation near Turtle Nesting Habitat.				
	Performance Objective  Minimize turtle mortality along access roads.	Performance Objective  Minimize turtle mortality along access roads.				
	<ul> <li>Mitigation Strategy</li> <li>Maintain wildlife crossing signs and limit speed of vehicles near over-wintering pond (30 km/hr).</li> </ul>	Mitigation Strategy  Maintain wildlife crossing signs and limit speed of vehicles near over-wintering pond (30 km/hr).				
	Residual Effects	Residual Effects				
	<ul> <li>Risk of turtle road mortality reduced through mitigation measures.</li> <li>Low likelihood of occurring and limited magnitude due to limited volume of maintenance vehicles.</li> </ul>	Risk of turtle road mortality reduced through mitigation measures.     Low likelihood of occurring and limited magnitude due to limited volume of maintenance vehicles.				
	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years post-construction turtle nesting surveys to assess any potential effects to TNH-02 (if feature determined to be significant) by a qualified Biologist using the protocol described in the NHA, which includes:</li> <li>Conduct surveys on three occasions between late May and late June;</li> <li>Conduct area search of nesting habitat for a minimum of 20 minutes;</li> </ul>	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years post-construction turtle nesting surveys to assess any potential effects to TNH-02 (if feature determined to be significant) by a qualified Biologist using the protocol described in the NHA, which includes:</li> <li>Conduct surveys on three occasions between late May and late June;</li> <li>Conduct area search of nesting habitat for a minimum of 20 minutes;</li> </ul>				
	<ul> <li>Any observed turtles or predated eggs will be identified and recorded along with GPS coordinates of their location, individual visual characteristics, and all necessary data to identify turtle species.</li> <li>Report the findings of post-construction monitoring to MNR on an annual basis for the first 3 years of operation.</li> </ul>	<ul> <li>Any observed turtles or predated eggs will be identified and recorded along with GPS coordinates of their location, individual visual characteristics, and all necessary data to identify turtle species.</li> <li>Report the findings of post-construction monitoring to MNR on an annual basis for the first 3 years of operation.</li> </ul>				
	<ul> <li>Contingency Measures:</li> <li>If significant declines or disappearance of species is detected, determine whether likely to have been caused by the Project. If so, corrective measures will be taken, to be determined through consultation with MNR.</li> </ul>	<ul> <li>Contingency Measures:</li> <li>If significant declines or disappearance of species is detected, determine whether likely to have been caused by the Project. If so, corrective measures will be taken, to be determined through consultation with MNR.</li> </ul>				
Table 6-2 / page 27	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if features determined to be significant) at features within 30 m of an access road (AWO-01, AWO-03, AWO-05, AWO-06, AWO-11, AWO-12, AWO-16, AWE-01, AWE-02, AWE-03 and AWE-04) by a qualified Biologist using the protocol described in the NHA, which includes:</li> <li>Conduct 1 year post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if features determined to be significant) at features greater than 30 m from an access road (AWO-02, AWO-04, AWO-08, AWO-09, AWO-10, AWO-13, AWO-17, AWO-19, AWO-20 and AWE-05) by a qualified Biologist, using the protocol described above.</li> </ul>	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if features determined to be significant) at features within 30 m of an access road (AWO-01, AWO-03, AWO-04, AWO-05, AWO-06, AWO-11, AWO-12, AWO-22, AWO-16, AWE-01, AWE-02, AWE-03 and AWE-04) by a qualified Biologist using the protocol described in the NHA, which includes:</li> <li>Conduct 1 year post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if features determined to be significant) at features greater than 30 m from an access road (AWO-02, AWO-04, AWO-08, AWO-09, AWO-10, AWO-13, AWO-17, AWO-19, AWO-29 and AWE-05) by a qualified Biologist, using the protocol described above.</li> </ul>				

Section / Page	Original Text					Revised Text  ( <u>Underlined text</u> represents additions and strikethrough text represents deletions.  Mitigation measures not included in the original REA are shown in <i>italicized bold</i> )				
Table 6-2 / page 28	<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if features determined to be significant) at features potentially affected by construction dewatering (AWO-01, AWO-08, AWO-13, AWO-16, AWO-17 and AMC-01) by a qualified Biologist, using the protocol described above.</li> </ul>					<ul> <li>Monitoring Plan and Contingency Measures</li> <li>Conduct 3 years post-construction amphibian call surveys (frogs and toads) and egg mass or adult surveys (salamanders) to assess any potential changes in amphibian breeding populations or species distribution (if features determined to be significant) at features potentially affected by construction dewatering (AWO-01, AWO-08, AWO-13, AWO-16, AWO-17, AWO-20 and AMC-01) by a qualified Biologist, using the protocol described above.</li> </ul>				
Section 6.3.1 / page 29	Following the Records Review and Site Investigation, 116 water bodies were identified.  Based on a sensitivity ranking conducted by AECOM, 9 water bodies were classified as high sensitivity ( <i>i.e.</i> , not very resilient to environmental change); 71 water bodies were classified as moderate sensitivity; and 36 water bodies were classified as low sensitivity.								gh sensitivity (i.e., not very resilient to environn	
Section 6.6.1 / page 34	A Parcel Boundary Setback Reduction Analysis (IBI Group, 2012), provided in <b>Appendix D</b> , identifies 39 locations where turbines are sited within 80 m of neighbouring property lines.					A Parcel Boundary Setback Reduction Analysis (IBI Group, 2012), provided in <b>Appendix D</b> , identifies 39 43 locations where turbines are sited within 80 m of neighbouring property lines.				
Table 6-6 / page 35	Potential Effect  Damage to crops or trees due to turbine malfunction or failure associated with 39 turbines located within 80 m of neighbouring property lines  Damage to crops or trees due to turbine malfunction or failure associated with 39 turbines located 43 locations where turbines are m of neighbouring property lines							located 43 locations where turbines are sited v		
Table 6-7 / page 35	Area (ha)	Licence Class	Status	Distance to Project Infrastructure Disturbance Area		Area (ha)	Licence Class	Status	Distance to Project Infrastructure Disturbance Area	
	58.96	Class A Licence > 20000 Tonnes	Active	44 m		58.96	Class A Licence > 20000 Tonnes	Active	44 m <u>170 m</u>	
	15.80	Class B Licence <= 20000 Tonnes	Active	21 m		15.80 <u>1.55</u>	Class B Licence <= 20000 Tonnes	Active	21 m	
Section 6.7.4 / page 36	According to CanACRE's infrastructure, as shown in		nowever, seven aband	oned wells are located within 75 m of Project			etroleum Facility Location Report (2012), h	owever, <del>seven</del> five a	abandoned wells are located within 75 m of Pro	
Table 6-8 / page 36	Well ID	Project Infrastructure w	ithin 75 m	Distance to Project Infrastructure	Г	Well ID	Project Infrastructure wi	thin 75 m	Distance to Project Infrastructure	
	W1	T7 access road		58 m		<del>W1</del>	T7 access road		58 m	
	W2	Collection line between T31 and T8		52 m		W2	Collection line between T31 T27 and T8		<del>52 m</del> <u>46 m</u>	
	W7	Transmission line		47 m		W7	Transmission line		<del>47 m</del> <u>40 m</u>	
	W10	T47 and associated access road and	d collection line	18 m		W10	T47 and associated access road and collection line		18 m	
	W11	T71 and associated access road and	d collection line	37 m		W11	T71 and associated access road and collection line		37 m	
		T76 access road and collection line to T75 and T76		1 m		<del>W14</del>	T76 access road and collection line to T75 and T76		1 m	
	W14 W15	T94 access road and collection line	to 175 and 176	43 m		W15	T94 access road and collection line			

# 4. Summary and Conclusions

The Project modifications described in this REA Revision Report do not change the overall conclusion of the Design and Operations Report which states that "this Project can be operated without any significant adverse residual effects. Post-construction monitoring related to effects on wildlife, including birds and bats, will be undertaken to confirm this conclusion".