

Jericho Wind, Inc.
Jericho Wind Energy Centre

Natural Heritage Assessment and Environmental Impact Study Report Third Addendum

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Glossary of Terms

| | |
|-----------------------------|--|
| ANSI..... | Area of Natural and Scientific Interest |
| Area of Investigation | Area encompasses by 120 m setback from Project Location boundary |
| EIS | Environmental Impact Study |
| MNR | Ministry of Natural Resources |
| O. Reg. 359/09..... | Ontario Regulation 359/09 |
| Project Location | The area encompassing all construction activities and project components |
| REA..... | Renewable Energy Approval |

1. Introduction

Jericho Wind, Inc. (Jericho), a wholly owned subsidiary of NextEra Energy Canada, ULC, (NextEra) 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. AECOM Canada Ltd. (AECOM) was retained by NextEra to prepare a Natural Heritage Assessment (NHA) and Environmental Impact Study (EIS) for the proposed Jericho Wind Energy Centre (the Project), in accordance with the requirements of the Renewable Energy Approval (REA) process and O. Reg. 359/09.

The Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report (AECOM, 2013a) was originally submitted to the Ontario Ministry of Natural Resources (MNR) in November 2012. AECOM later prepared two Natural Heritage Assessment and Environmental Impact Study Report Addenda (AECOM, 2012; AECOM 2013b) in order to fulfill the requirements of the Renewable Energy Approval (REA) process and O. Reg. 359/09 with respect to refinements to the Project Location proposed after the original submission of the NHA and EIS to MNR.

MNR issued confirmation letters on February 7, 2013 stating that the Natural Heritage Assessment and Environmental Impact Study Report (AECOM 2013a) and the two Addenda (AECOM, 2012; AECOM, 2013b), respectively, met all requirements in accordance with the REA regulation for this Project (refer to Appendix A). The Natural Heritage Assessment and Environmental Impact Study Report and the two Addenda are hereafter collectively referred to as the approved NHA and EIS.

This NHA Addendum has been prepared as a modification to the approved NHA and EIS, and is intended to fulfill the requirements of a Natural Heritage Assessment and Environmental Impact Study in accordance with the requirements of the REA process and O.Reg. 359/09, with respect to modifications to the Project Location proposed after MNR confirmation of the approved NHA and EIS (**Figure 1**).

1.1 Overview of Project Changes

Jericho Wind Inc. is proposing modifications to the Project Location including:

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

All of the proposed modifications to the Project Location are summarized in **Table 1**. For each proposed modification, a map showing the revised Project Location and associated 120 m Area of Investigation (dated August 2013), referenced against the Project Location and associated 120 m Area of Investigation in the approved NHA and EIS (dated January 2013), is included in this NHA Addendum (refer to **Table 1** for corresponding Figure numbers). Features (*i.e.*, woodlands, wetlands, significant wildlife habitat and/or Areas of Natural and Scientific Interest) identified in the approved NHA and EIS are provided in the table below for each Natural Area potentially affected by the proposed modifications. Changes in the minimum distance from Features within 120 m of each modification to the Project Location are also provided in the table below.

In addition, a spare 170 mVA transformer (XMR) will be stored within the existing footprint of the Jericho substation.

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|---|---|---|------------------|
| A1: Addition of Turbine 106 and associated access road and collection line extending northeast from Turbine 4. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | New Turbine 106 and associated access road and collection line are within 120 m of a portion of Natural Area 290 that was not previously described in the approved NHA and EIS. Features within 120 m of this modification are described in this NHA Addendum. | Figure 1A |
| A2: Relocation of access road to Turbine 4 to travel northeast from Jericho Road, and relocation of collection line to Turbine 4 near Kennedy Line. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | Access road and collection line remain within 120 m of Natural Area 290. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-277 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (decreased to 0 m; access road in Feature) | Figure 1A |
| A3: Relocation of access road and collection line to Turbine 6 to travel west from Northville Road and then north to Turbine 6; relocation of Turbine 6 construction disturbance area to the north. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | Turbine construction disturbance area, access road and collection line remain within 120 m of Natural Area 283. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat (no change) Natural Area 285 is no longer within 120 m of the Project Location. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-048 (minimum distance decreased to 61 m due to Modification A1) • Woodland Features WOD-262 (increased to >120 m) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (increased to >120 m) | Figure 1A |
| A4: Relocation of Turbine 19 construction disturbance area to the southwest and addition of access road construction disturbance area near Jericho Road. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | None (no Natural Areas are within 120 m of this modification). | Figure 1A |
| 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 | Collection line and access road are within 120 m of Natural Area 216. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-215 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony Feature (BMA-216) (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (no change) | Figure 1A |
| A6: Removal of a portion of construction disturbance area for access road and collection line to Turbines 21, 23 and 25. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | None (no Natural Areas are within 120 m of this modification). | Figure 1A |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|---|--|--|-------------------------|
| <p>A7: Removal of Turbine 5 and associated access road and collection line.</p> | <p>Turbine and associated infrastructure removed</p> | <p>Natural Area 291 is no longer within 120 m of the Project Location. Features within this Natural Area include:</p> <ul style="list-style-type: none"> • Woodland Feature WOD-273 (increased to >120 m) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (increased to >120 m) <p>The following Candidate Significant Wildlife Habitat is not associated with any Natural Areas but is now no longer within 120 m of the Project Location:</p> <ul style="list-style-type: none"> • Terrestrial Waterfowl (Tundra Swan) Stopover and Staging Area Feature WSST-31 (increased to >120 m) <p>Natural Area 286 is no longer within 120 m of the Project Location. Features within this Natural Area include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-048 (minimum distance decreased to 61 m due to Modification A1) • Woodland Feature WOD-267 (increased to >120 m) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (increased to >120 m) | <p>Figure 1A</p> |
| <p>B1: Relocation of Turbine 7 and associated construction disturbance area 148 m to the east.</p> | <p>Infrastructure or construction disturbance area added or changed to optimize project design/ constructability</p> | <p>Turbine 7 and construction disturbance area are within 120 m of Natural Area 275. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Woodland Feature WOD-266 (no change) <p>Turbine 7 and construction disturbance area are within 120 m of Natural Area 494. No significant Features were identified in Natural Area 494 in the approved NHA and EIS.</p> | <p>Figure 1B</p> |
| <p>B2: Addition of collection line in Gordon Road right-of-way, north of the road to Turbine 27.</p> | <p>Infrastructure or construction disturbance area added or changed to optimize project design/ constructability</p> | <p>Collection line is within 120 m of Natural Area 233. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Woodland Feature WOD-263 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) <p>Collection line is within 120 m of Natural Area 234. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-072 (no change) • Woodland Feature WOD-263 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Rare Vegetation Community, Plant Species of Conservation Concern Habitat, and Red-headed Woodpecker Habitat (no change) <p>Collection line is within 120 m of Nature Area 243. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-072 (no change) • Woodland Feature WOD-263 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Plant Species of Conservation Concern Habitat Features SCP-20 and SCP-21 (no change) ▪ Rare Vegetation Community Feature RVC-02 (decreased to >0.1 m) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Insect Species of Conservation Concern Habitat, Plant Species of Conservation Concern Habitat, Red-headed Woodpecker Habitat and Amphibian Woodland Breeding Habitat (no change); Turtle Wintering Area (decreased to 44 m) | <p>Figure 1B</p> |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|--|---|---|------------------|
| B3: Removal of Turbine 31 and associated access road and collection line. | Turbine and associated infrastructure removed | <p>Turbine 31 and associated access road and collection line are no longer within 120 m of Natural Area 250. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-072 (no change) • Woodland Feature WOD-263 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) ▪ Amphibian Movement Corridor Feature AMC-01 (no change) ▪ Amphibian Woodland Breeding Habitat Feature AWO-16 (no change) ▪ Turtle Wintering Area Feature TWH-04 (increased to >120 m) • Generalized Candidate Significant Wildlife Habitat: Turtle Nesting Habitat, Insect Species of Conservation Concern Habitat, Plant Species of Conservation Concern Habitat, and Red-headed Woodpecker Habitat (no change) <p>Collection line to Turbine 31 is no longer within 120 m of Natural Area 249. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-072 (no change) • Woodland Feature WOD-263 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) ▪ Amphibian Movement Corridor Feature AMC-01 (no change) ▪ Amphibian Woodland Breeding Habitat Feature AWO-13 (no change) • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area, Amphibian Wetland Breeding Habitat and Turtle Nesting Habitat (increased to 77 m); Habitat for Plant Species of Conservation Concern (increased to 16 m); Marsh Bird Breeding Habitat (increased to >120 m); Seeps and Springs (no change) | Figure 1B |
| B4: Addition of Turbine 32 construction disturbance area 34 m to the north and removal of the southeast portion of construction disturbance area. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | <p>Turbine construction disturbance area remains within 120 m of Natural Area 90. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Woodland Feature WOD-231 (no change) • Woodland Feature WOD-263 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) ▪ Bat Maternity Colony Feature BMA-090A (no change) ▪ Seeps and Springs Feature SS-01 (no change) | Figure 1B |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|--|---|--|------------------|
| 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 Thomson Line right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Turbine 26 and associated construction disturbance area and access road are within 120 m of Natural Area 173. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-060 (no change) • Woodland Feature WOD-192 (reduced to >0.1 m) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Plant Species of Conservation Concern Habitat and Amphibian Woodland Breeding Habitat (reduced to >0.1 m) Collection line is within 120 m of Natural Area 172. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-060 (no change) • Woodland Feature WOD-182 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Amphibian Woodland Breeding Habitat AWO-20 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat, Insect Species of Conservation Concern Habitat, and Red-headed Woodpecker Habitat (no change) | Figure 1C |
| C2: Relocation of access road to Turbine 18 31 m to the north. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | Access road remains within 120 m of Natural Area 188. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-198 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony Feature BMA-188 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (no change) | Figure 1C |
| C3: Addition of construction disturbance area for access road and collection line to Turbine 41. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | None (no Natural Areas are within 120 m of this modification). | Figure 1C |
| 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 Natural Areas are within 120 m of this modification). | Figure 1D |
| 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 Natural Areas are within 120 m of this modification). | Figure 1D |
| D3: Relocation of Turbine 46 access road to travel north from Cedar Point Line and collection line 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 | Access road and collection line are within 120 m of Natural Area 167. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-062 (reduced to 50 m) • Woodland Feature WOD-172 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat (reduced to 50 m) | Figure 1D |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|--|---|---|------------------|
| D4: Addition of Turbine 112 and associated access road and collection line, extending south from Turbine 59. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | New Turbine 112 and associated construction disturbance area, access road and collection line are within 120 m of Natural Area 145. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-059 (no change) • Woodland Feature WOD-126 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony Feature BMA-145 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat (no change) | Figure 1D |
| D5: Addition of construction disturbance area on private property to the north of Thomson 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 | Collection line and transmission line are within 120 m of Natural Area 235. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-078 (no change) • Woodland Feature WOD-197 (no change) • Generalized Candidate Significant Wildlife Habitat: Insect Species of Conservation Concern Habitat (no change) | Figure 1D |
| D6: Addition of transmission line construction disturbance area on private property to allow for transmission line installation either in the Thomson 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 Natural Areas are within 120 m of this modification). | Figure 1D |
| D7: Addition of collection line disturbance area on private property to allow for collection line installation either in the Thomson 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 | Collection line is within 120 m of Natural Area 215. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-201 (no change) • Generalized Candidate Significant Wildlife Habitat: Amphibian Woodland Breeding Habitat (no change) | Figure 1D |
| D8: Addition of collection line disturbance area on private property to allow for collection line installation either in the Thomson 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 Natural Areas are within 120 m of this modification). | Figure 1D |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|---|---|--|------------------|
| D9: Addition of collection line disturbance area on private property to allow for collection line installation either in the Thomson 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 Natural Areas are within 120 m of this modification). | Figure 1D |
| D10: Relocation of transmission line construction disturbance area into Natural Area located in the Thomson Line right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Transmission line is in Natural Area 215 within the road right-of-way. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-201 (reduced to 0 m; transmission line in Feature) • Generalized Candidate Significant Wildlife Habitat: Amphibian Woodland Breeding Habitat and Bat Maternity Colony (no change); Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (reduced to 0 m; transmission line in Feature). | Figure 1D |
| 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 | Turbine 77 is no longer within 120 m of Natural Area 90. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-050 (no change) • Woodland Feature WOD-263 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) ▪ Amphibian Woodland Breeding Habitat Feature AWO-03 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat, and Red-headed Woodpecker Habitat (no change) • Provincially Significant Ausable River Valley Life Science ANSI (no change) | Figure 1E |
| 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 | New Turbine 107 and associated access road and collection line are within 120 m of Natural Area 375. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-263 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Hooded Warbler Habitat Feature RHW-04 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) | Figure 1E |
| E3: Relocation of Turbine 79 23 m to the east, within existing turbine construction disturbance. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | Turbine 79 is within 120 m of Natural Area 90. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-263 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Hooded Warbler Habitat Feature RHW-04 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) • Provincially Significant Ausable River Valley Life Science ANSI (no change) | Figure 1E |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|--|---|--|------------------|
| E4: Addition of construction disturbance area on private property to the north of Thomson 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 | Transmission line and collection line are within 120 m of Natural Area 236. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-078 (no change) • Woodland Feature WOD-200 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Amphibian Woodland Breeding Habitat (no change) ▪ Red-headed Woodpecker Habitat (no change) ▪ Insect Species of Conservation Concern Habitat (no change) | Figure 1E |
| E5: Relocation of transmission line construction disturbance area within Natural Area located in the Thomson Line road right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Transmission line is in Natural Area 252 within the road right-of-way. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-204 (no change) • Generalized Candidate Significant Wildlife Habitat: Rare Vegetation Community, Insect Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (no change); Plant Species of Conservation Concern Habitat (reduced to 0 m; transmission line in Feature). Transmission line remains within 120 m of Natural Area 377. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-263 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Plant Species of Conservation Concern Feature SCP-17 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Rare Vegetation Community, Bat Maternity Colony, Amphibian Woodland Breeding Habitat, Insect Species of Conservation Concern Habitat, Red-headed Woodpecker Habitat and Plant Species of Conservation Concern Habitat (no change) | Figure 1E |
| E6: Relocation of transmission line construction disturbance area within Natural Area located in the Thomson Line/Elginfield Road right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Transmission line is in Natural Area 90 within the road right-of-way. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-050 (reduced to 0 m; transmission line in Feature) • Woodland Feature WOD-263 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Plant Species of Conservation Concern Habitat Features SCP-18 and SCP-23 (no change) ▪ Deer Winter Congregation Areas Feature DWC-02 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony BMA-090B (no change) ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Marsh Bird Breeding Habitat, Waterfowl Nesting Area, Seeps and Springs, Rare Vegetation Community, Mature Forest Stand, Amphibian Wetland Breeding Habitat, Amphibian Woodland Breeding Habitat, Amphibian Movement Corridor, Insect Species of Conservation Concern Habitat, Red-headed Woodpecker Habitat, Turtle Wintering Area, Terrestrial Crayfish Habitat (no change); Plant Species of Conservation Concern Habitat (reduced to 0 m; transmission line in Feature) • Provincially Significant Ausable River Valley Life Science ANSI (reduced to 0 m; transmission line in Feature) | Figure 1E |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|--|---|--|------------------|
| 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 Natural Areas are within 120 m of this modification). | Figure 1F |
| F2: Relocation of Turbine 44 access road 32 m to the west. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | Access road is now within 120 m of Natural Area 383 (not previously described in the approved NHA and EIS). Features within 120 m of this modification are described in this NHA Addendum. Access road is now within 120 m of Natural Area 117 (not previously described in the approved NHA and EIS). Features within 120 m of this modification are described in this NHA Addendum. | Figure 1F |
| F3: Relocation of Turbine 90 access road and collection line to the north, extending to Townsend Line and addition of collection line in the Townsend Line right-of-way. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | Access road and collection line are now within 120 m of Natural Area 119 (not previously described in the approved NHA and EIS). Features within 120 m of this modification are described in this NHA Addendum. Access road and collection line are now within 120 m of Natural Area 118 (not previously described in the approved NHA and EIS). Features within 120 m of this modification are described in this NHA Addendum. | Figure 1F |
| F4: Addition of Turbine 91 construction disturbance area 17 m to the west. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | None (no Natural Areas are within 120 m of this modification). | Figure 1F |
| F5: Removal of a portion of construction disturbance area for access road and collection line to Turbine 92. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | Access road and collection line remain within 120 m of Natural Area 70. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (no change) Access road and collection line remain within 120 m of Natural Area 71. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Rare Vegetation Community Feature RVC-04 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat (no change) | Figure 1F |
| 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 Natural Areas are within 120 m of this modification). | Figure 1F |
| G1: 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 | Collection line is within 120 m of Natural Area 103. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-082 (no change) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (no change). | Figure 1G |
| 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 | Access road is within 120 m of Natural Area 102. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-063 (reduced to 20 m) • Woodland Feature WOD-110 (reduced to 9 m) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Amphibian Woodland Breeding Habitat Feature AWO-04 (reduced to 9 m) • Generalized Candidate Significant Wildlife Habitat: Mature Forest Stand, Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (reduced to 9 m) | Figure 1G |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|---|---|--|------------------|
| 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 | Collection line remains within 120 m of Natural Area 42. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-047 (no change) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Raptor Wintering Area, Mature Forest Stand, Rare Vegetation Community, Amphibian Woodland Breeding Habitat, Plant Species of Conservation Concern Habitat, Red-headed Woodpecker Habitat and Insect Species of Conservation Concern Habitat (no change) | |
| 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 | Collection line is within 120 m of Natural Area 97. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-025 (increased to 22 m) • Woodland Feature WOD-084 (increased to 22 m) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony Feature BMA-097 (increased to 22 m) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (increased to 22 m) | Figure 1G |
| 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 | Access road and collection line are within 120 m of Natural Area 516. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area (reduced to 1 m) Access road and collection line are within 120 m of Natural Area 85. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-077 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat (no change) | Figure 1G |
| G6: Addition of Turbine 109 and associated construction disturbance area, access road and collection line; addition of collection line in Hickory Creek Line right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | None (no Natural Areas are within 120 m of this modification). | Figure 1G |
| 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 Natural Areas are within 120 m of this modification). | Figure 1H |
| 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 Natural Areas are within 120 m of this modification). | Figure 1H |
| 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 | None (no Natural Areas are within 120 m of this modification). | Figure 1I |
| J1: Removal of Turbine 2 and associated access road and collection line. | Turbine and associated infrastructure removed | Removed Turbine 2, and associated access road and collection line are within 120 m of Natural Area 493. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-278 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Deer Winter Congregation Area Feature DWC-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Woodland Raptor Nesting Habitat, Plant Species of Conservation Concern Habitat, Woodland Area-Sensitive Bird Breeding Habitat and Red-headed Woodpecker Habitat (no change) | Figure 1J |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|---|---|---|------------------|
| 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 | <p>Removed Turbine 1, and associated access road and collection line are within 120 m of Natural Area 298. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-046 (increased to >120 m) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Turtle Nesting Habitat Feature (TNH-02) (increased to >120 m) <p>Natural Area 297 is no longer within 120 m of the Project Location. Features within this Natural Area include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-046 (increased to >120 m) • Woodland Feature WOD-261 (increased to >120 m) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony Feature (BMA-297) (increased to >120 m) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat (increased to >120 m) <p>Turbine 1 and associated construction disturbance area, access road and collection line are within 120 m of a portion of Natural Area 298 that was not previously described in the approved NHA and EIS. Features within 120 m of this modification are described in this NHA Addendum.</p> <p>Turbine 1 and associated construction disturbance area, access road and collection line are within 120 m of Natural Area 493. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Woodland Feature WOD-278 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Deer Winter Congregation Area Feature DWC-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Bat Maternity Colony, Woodland Raptor Nesting Habitat, Plant Species of Conservation Concern Habitat, Woodland Area-Sensitive Bird Breeding Habitat and Red-headed Woodpecker Habitat (no change) | Figure 1J |
| 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 | Addition of Turbine 2 and associated construction disturbance area, access road and collection line are within 120 m of a portion of Natural Area 293 that was not previously described in the approved NHA and EIS. Features within 120 m of this modification are described in this NHA Addendum. | Figure 1J |
| J4: Relocation of Turbine 13 construction disturbance area 14 m to the southwest. | Construction disturbance area modified to reduce or eliminate impacts to archaeological resources | <p>Turbine construction disturbance area remains within 120 m of Natural Area 214. Features within 120 m of this modifications include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-044 (increased to 41 m) • Woodland Feature WOD-245 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony Feature BMA-214 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat and Red-headed Woodpecker Habitat (no change) | Figure 1J |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|---|---|---|------------------|
| K1: Relocation of transmission line construction disturbance area within Natural Area located in the Elginfield Road right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | <p>Transmission line is in Natural Area 90 within the road right-of-way. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-050 (reduced to 0 m; transmission line in Feature) • Woodland Feature WOD-263 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Deer Winter Congregation Area Feature DWC-02 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bat Maternity Colony BMA-090B (no change) ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area, Turtle Nesting Habitat, Red-headed Woodpecker Habitat, Plant Species of Conservation Concern Habitat, Insect Species of Conservation Concern Habitat and Rare Vegetation Community (no change) • A newly delineated CUM1-1 vegetation community in Natural Area 90 is described in this NHA Addendum (0 m; transmission line is in newly delineated vegetation community) <p>Transmission line remains within 120 m of Natural Area 339. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Wetland Feature WET-050 (reduced to 0 m; transmission line in Feature) • Woodland Feature WOD-263 (no change) • Confirmed Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Deer Winter Congregation Area Feature DWC-02 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Woodland Raptor Nesting Habitat Feature WRN-01 (no change) ▪ Woodland Area-Sensitive Bird Breeding Habitat Feature WBB-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area, Turtle Nesting Habitat, Red-headed Woodpecker Habitat, Plant Species of Conservation Concern Habitat and Bat Maternity Colony (no change) | Figure 1K |
| K2: Addition of transmission line construction disturbance area on private property to the north of Elginfield Road, east of Pete Sebe Road. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | <p>Transmission line is within 120 m of Natural Area 497. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Amphibian Wetland Breeding Habitat (no change) <p>Transmission line is within 120 m of Natural Area 342. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Woodland Feature WOD-181 (no change) • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area and Amphibian Wetland Breeding Habitat (no change) | Figure 1K |
| K3: 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 Natural Areas are within 120 m of this modification). | Figure 1K |

Table 1. Summary of Proposed Modifications

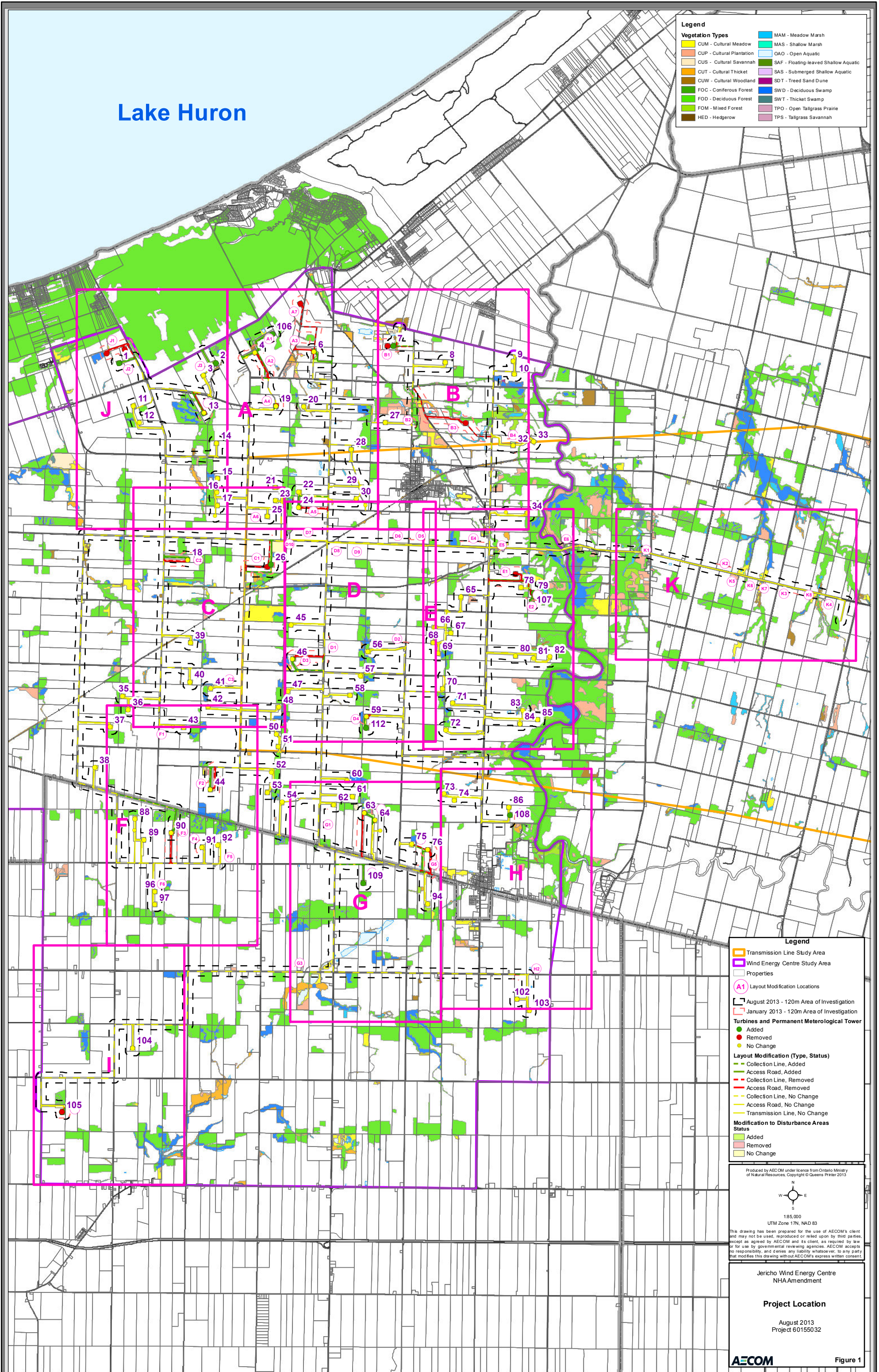
| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|---|---|---|------------------|
| K4: Addition of transmission line construction disturbance area on private property to the south of Elginfield Road, west of Kerwood Road. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Transmission line is within 120 m of Natural Area 344. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bald Eagle and Osprey Nesting, Foraging and Perching Habitat Feature BEN-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat (no change) | Figure 1K |
| K5: Relocation of transmission line construction disturbance area within Natural Area located in the Elginfield Road right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Transmission line is in Natural Area 342 within the road right-of-way. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-181 (reduced to 0 m; transmission line in Feature) • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area and Amphibian Wetland Breeding Habitat (no change) Transmission line remains within 120 m of Natural Area 351. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Waterfowl Nesting Area, Marsh Bird Breeding Habitat and Plant Species of Conservation Concern Habitat (no change) Transmission line remains within 120 m of Natural Area 497. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Amphibian Wetland Breeding Habitat (no change) | Figure 1K |
| K6: Relocation of transmission line construction disturbance area within Natural Area located in the Elginfield Road right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Transmission line is in Natural Area 340 within the road right-of-way. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-180 (no change) • Generalized Candidate Significant Wildlife Habitat: Rare Vegetation Community, Insect Species of Conservation Concern Habitat, Plant Species of Conservation Concern Habitat, Red-headed Woodpecker Habitat and Bat Maternity Colony (no change) • A newly delineated CUM1-1 vegetation community in Natural Area 340 is described in this NHA Addendum (0 m; transmission line is in newly delineated vegetation community) Transmission line remains within 120 m of Natural Area 351. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area, Amphibian Wetland Breeding Habitat, Waterfowl Nesting Area, Marsh Bird Breeding Habitat and Plant Species of Conservation Concern Habitat (no change) Transmission line construction disturbance area is within 120 m of Natural Area 342. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Woodland Feature WOD-181 (reduced to 0 m; transmission line in Feature due to Modification K5) | Figure 1K |
| K7: Relocation of transmission line construction disturbance area within Natural Area located in the Elginfield Road right-of-way. | Infrastructure or construction disturbance area added or changed to optimize project design/ constructability | Transmission line is in Natural Area 341 within the road right-of-way. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Wetland Feature WET-051 (no change) • Woodland Feature WOD-175 (reduced to 0 m; transmission line in Feature) • Generalized Candidate Significant Wildlife Habitat: Turtle Nesting Habitat, Red-headed Woodpecker Habitat, Insect Species of Conservation Concern Habitat (no change); Plant Species of Conservation Concern Habitat (reduced to 0 m; transmission line in Feature) Transmission line construction disturbance area remains within 120 m of Natural Area 351. Features within 120 m of this modification include: <ul style="list-style-type: none"> • Generalized Candidate Significant Wildlife Habitat: Plant Species of Conservation Concern Habitat, Amphibian Wetland Breeding Habitat and Turtle Wintering Area (no change) | Figure 1K |

Table 1. Summary of Proposed Modifications

| Modification ID | Type of Modification | Feature(s) Potentially Affected by Proposed Modification (Change in Minimum Distance to Project Location) | Map |
|--|--|--|-------------------------|
| <p>K8: Relocation of transmission line construction disturbance area within Natural Area located in the Elginfield Road right-of-way.</p> | <p>Infrastructure or construction disturbance area added or changed to optimize project design/ constructability</p> | <p>Transmission line is in Natural Area 344 within the road right-of-way. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Woodland Feature WOD-164 (no change) • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bald Eagle and Osprey Nesting, Foraging and Perching Habitat Feature BEN-01 (no change) • Generalized Candidate Significant Wildlife Habitat: Turtle Wintering Area, Rare Vegetation Community, Amphibian Woodland Breeding Habitat, Red-headed Woodpecker Habitat, Bat Maternity Colony, Insect Species of Conservation Concern Habitat (no change); Plant Species of Conservation Concern Habitat (reduced to 0 m; transmission line in Feature) <p>Transmission line construction disturbance area remains within 120 m of Natural Area 348. Features within 120 m of this modification include:</p> <ul style="list-style-type: none"> • Candidate Significant Wildlife Habitat: <ul style="list-style-type: none"> ▪ Bald Eagle and Osprey Nesting, Foraging and Perching Habitat Feature BEN-01 (no change) • Woodland Feature WOD-297 (no change) • Generalized Candidate Significant Wildlife Habitat: Woodland Raptor Nesting Habitat, Red-headed Woodpecker Habitat and Plant Species of Conservation Concern Habitat (no change) | <p>Figure 1K</p> |

Lake Huron

| Vegetation Types | |
|---------------------------|---------------------------------------|
| CUM - Cultural Meadow | MAM - Meadow Marsh |
| CUP - Cultural Plantation | MAS - Shallow Marsh |
| CUS - Cultural Savannah | OAO - Open Aquatic |
| CUT - Cultural Thicket | SAF - Floating-leaved Shallow Aquatic |
| CUW - Cultural Woodland | SAS - Submerged Shallow Aquatic |
| FOC - Coniferous Forest | SDT - Treed Sand Dune |
| FOM - Mixed Forest | SWD - Deciduous Swamp |
| HED - Hedgerow | SWT - Thicket Swamp |
| | TPO - Open Tallgrass Prairie |
| | TPS - Tallgrass Savannah |



| Legend | |
|--------|---|
| | Transmission Line Study Area |
| | Wind Energy Centre Study Area |
| | Properties |
| | Layout Modification Locations |
| | August 2013 - 120m Area of Investigation |
| | January 2013 - 120m Area of Investigation |
| | Turbines and Permanent Meteorological Tower |
| | Added |
| | Removed |
| | No Change |
| | Layout Modification (Type, Status) |
| | Collection Line, Added |
| | Access Road, Added |
| | Collection Line, Removed |
| | Access Road, Removed |
| | Collection Line, No Change |
| | Access Road, No Change |
| | Transmission Line, No Change |
| | Modification to Disturbance Areas Status |
| | Added |
| | Removed |
| | No Change |

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UTM Zone 17N, NAD 83

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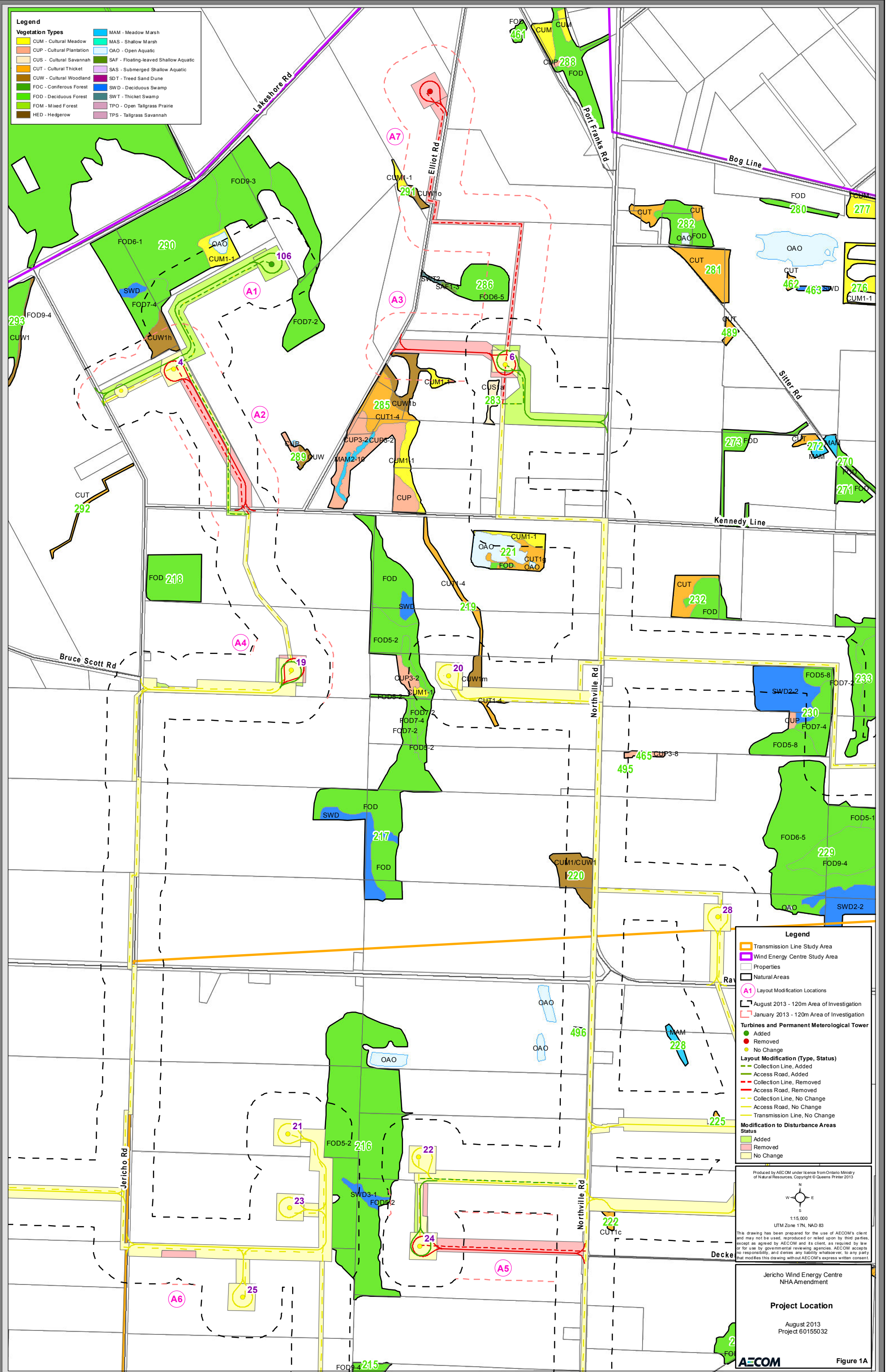
Jericho Wind Energy Centre
NHA Amendment

Project Location

August 2013
Project 60155032

AECOM Figure 1

| Legend | |
|---------------------------|---------------------------------------|
| Vegetation Types | |
| CUM - Cultural Meadow | MAM - Meadow Marsh |
| CUP - Cultural Plantation | MAS - Shallow Marsh |
| CUS - Cultural Savannah | OAO - Open Aquatic |
| CUT - Cultural Thicket | SAF - Floating-leaved Shallow Aquatic |
| CUW - Cultural Woodland | SAS - Submerged Shallow Aquatic |
| FOD - Coniferous Forest | SDT - Treed Sand Dune |
| FOD - Deciduous Forest | SWD - Deciduous Swamp |
| FOM - Mixed Forest | SWT - Thicket Swamp |
| HED - Hedgerow | TPO - Open Tallgrass Prairie |
| | TPS - Tallgrass Savannah |



| Legend | |
|--|---|
| Orange outline | Transmission Line Study Area |
| Purple outline | Wind Energy Centre Study Area |
| Black outline | Properties |
| Blue outline | Natural Areas |
| Pink circle | Layout Modification Locations |
| Black dashed line | August 2013 - 120m Area of Investigation |
| Red dashed line | January 2013 - 120m Area of Investigation |
| Turbines and Permanent Meteorological Tower | |
| Green circle | Added |
| Red circle | Removed |
| Yellow circle | No Change |
| Layout Modification (Type, Status) | |
| Green line | Collection Line, Added |
| Green dashed line | Access Road, Added |
| Red line | Collection Line, Removed |
| Red dashed line | Access Road, Removed |
| Yellow line | Collection Line, No Change |
| Yellow dashed line | Access Road, No Change |
| Orange line | Transmission Line, No Change |
| Modification to Disturbance Areas Status | |
| Green fill | Added |
| Red fill | Removed |
| Yellow fill | No Change |

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1:15,000
UTM Zone 17N, NAD 83

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Jericho Wind Energy Centre
NHA Amendment

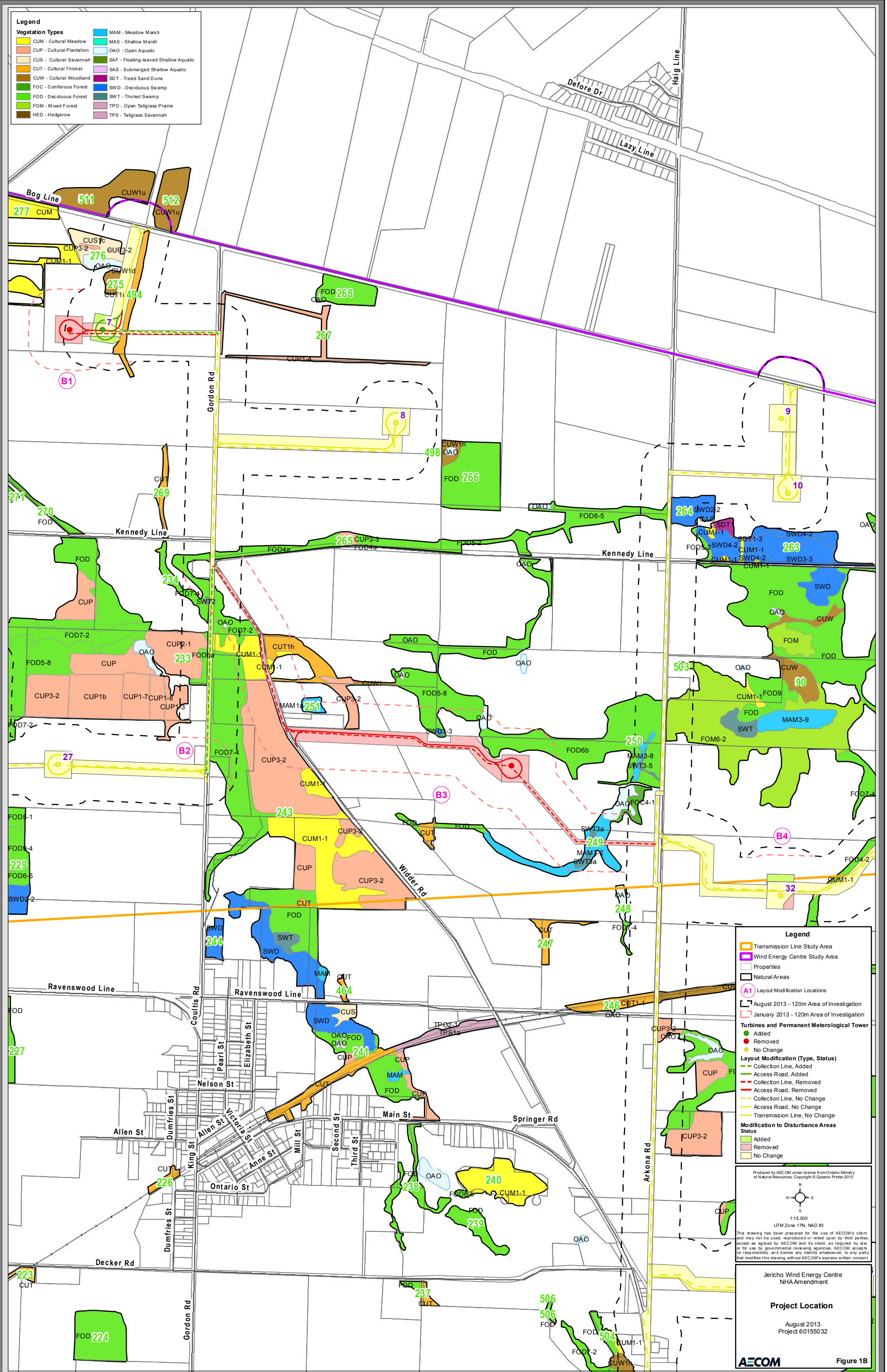
Project Location

August 2013
Project 60155032

AECOM

Figure 1A

| Legend | |
|---------------------------|---------------------------------------|
| Vegetation Types | |
| CUM - Cultural Meadow | MAM - Meadow Marsh |
| CUP - Cultural Plantation | MAS - Shallow Marsh |
| CUS - Cultural Savannah | OAO - Open Aquatic |
| CUT - Cultural Thicket | SAF - Floating-leaved Shallow Aquatic |
| CUW - Cultural Woodland | SAS - Submerged Shallow Aquatic |
| FOC - Coniferous Forest | SDT - Treed Sand Dune |
| FOD - Deciduous Forest | SWD - Deciduous Swamp |
| FOM - Mixed Forest | SWT - Thicket Swamp |
| HED - Hedgerow | TPO - Open Tallgrass Prairie |
| | TPS - Tallgrass Savannah |



| Legend | |
|---------------------|---|
| [Orange outline] | Transmission Line Study Area |
| [Purple outline] | Wind Energy Centre Study Area |
| [Black outline] | Properties |
| [Blue outline] | Natural Areas |
| [Pink circle] | Layout Modification Locations |
| [Red dashed line] | August 2013 - 120m Area of Investigation |
| [Green dashed line] | January 2013 - 120m Area of Investigation |
| [Green dot] | Turbines and Permanent Meteorological Tower |
| [Red dot] | Added |
| [Yellow dot] | Removed |
| [Black dot] | No Change |
| [Green line] | Layout Modification (Type, Status) |
| [Green line] | Collection Line, Added |
| [Green line] | Access Road, Added |
| [Red line] | Collection Line, Removed |
| [Red line] | Access Road, Removed |
| [Yellow line] | Collection Line, No Change |
| [Yellow line] | Access Road, No Change |
| [Orange line] | Transmission Line, No Change |
| [Green box] | Modification to Disturbance Areas Status |
| [Green box] | Added |
| [Red box] | Removed |
| [Black box] | No Change |

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NHA Amendment

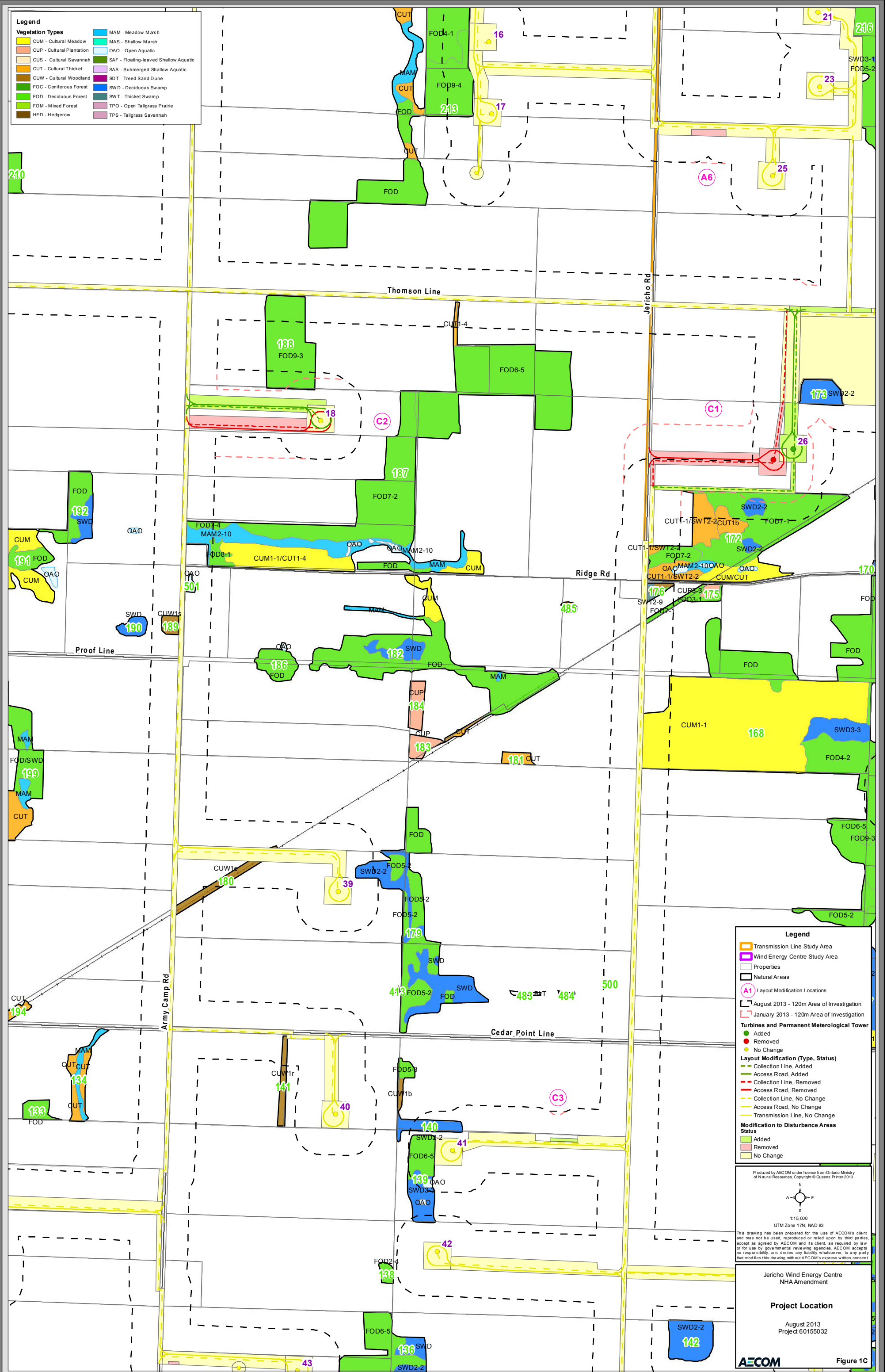
Project Location

August 2013
Project 60155032

AECOM

Figure 1B

| Legend | |
|---------------------------|---------------------------------------|
| Vegetation Types | |
| CUM - Cultural Meadow | MAM - Meadow Marsh |
| CUP - Cultural Plantation | MAS - Shallow Marsh |
| CUS - Cultural Savannah | OAO - Open Aquatic |
| CUT - Cultural Thicket | SAF - Floating-leaved Shallow Aquatic |
| CUW - Cultural Woodland | SAS - Submerged Shallow Aquatic |
| FOC - Coniferous Forest | SDT - Treed Sand Dune |
| FOD - Deciduous Forest | SWD - Deciduous Swamp |
| FOM - Mixed Forest | SWT - Thicket Swamp |
| HED - Hedgerow | TPO - Open Tallgrass Prairie |
| | TPS - Tallgrass Savannah |



| Legend | |
|--------|---|
| | Transmission Line Study Area |
| | Wind Energy Centre Study Area |
| | Properties |
| | Natural Areas |
| | Layout Modification Locations |
| | August 2013 - 120m Area of Investigation |
| | January 2013 - 120m Area of Investigation |
| | Turbines and Permanent Meteorological Tower |
| | Added |
| | Removed |
| | No Change |
| | Layout Modification (Type, Status) |
| | Collection Line, Added |
| | Access Road, Added |
| | Collection Line, Removed |
| | Access Road, Removed |
| | Collection Line, No Change |
| | Access Road, No Change |
| | Transmission Line, No Change |
| | Modification to Disturbance Areas Status |
| | Added |
| | Removed |
| | No Change |

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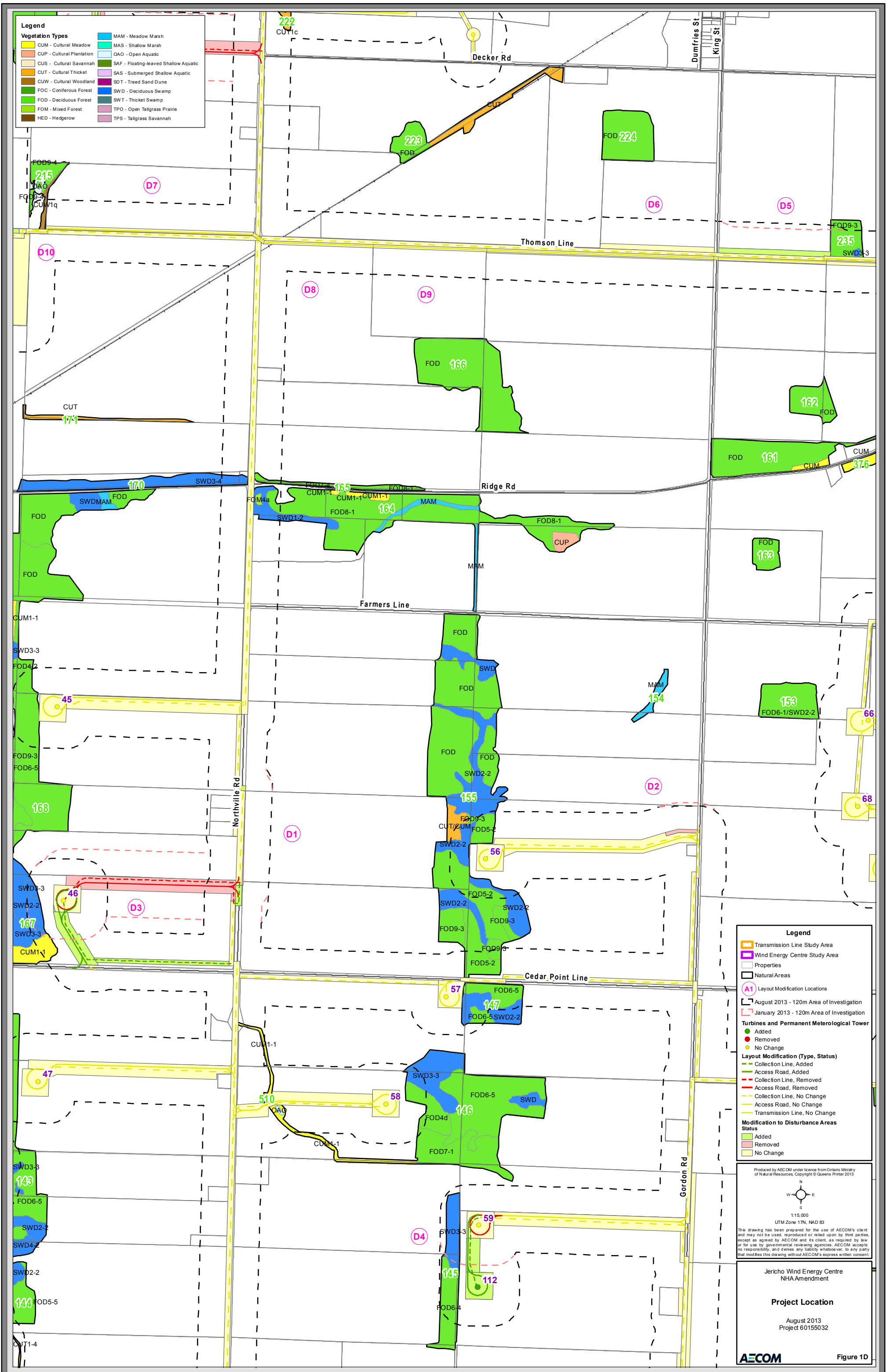
Jericho Wind Energy Centre
NHA Amendment

Project Location

August 2013
Project 60155032

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Figure 1C



Legend

Vegetation Types

| | |
|---------------------------|---------------------------------------|
| CUM - Cultural Meadow | MAM - Meadow Marsh |
| CUP - Cultural Plantation | MAS - Shallow Marsh |
| CUS - Cultural Savannah | OAO - Open Aquatic |
| CUT - Cultural Thicket | SAF - Floating-leaved Shallow Aquatic |
| CUW - Cultural Woodland | SAS - Submerged Shallow Aquatic |
| FOC - Coniferous Forest | SDT - Treed Sand Dune |
| FOD - Deciduous Forest | SWD - Deciduous Swamp |
| FOM - Mixed Forest | SWT - Thicket Swamp |
| HED - Hedgerow | TPO - Open Tallgrass Prairie |
| | TPS - Tallgrass Savannah |

Legend

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- Natural Areas
- Layout Modification Locations
- August 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation

Turbines and Permanent Meteorological Tower

- Added
- Removed
- No Change

Layout Modification (Type, Status)

- Collection Line, Added
- Access Road, Added
- Collection Line, Removed
- Access Road, Removed
- Collection Line, No Change
- Access Road, No Change
- Transmission Line, No Change

Modification to Disturbance Areas Status

- Added
- Removed
- No Change

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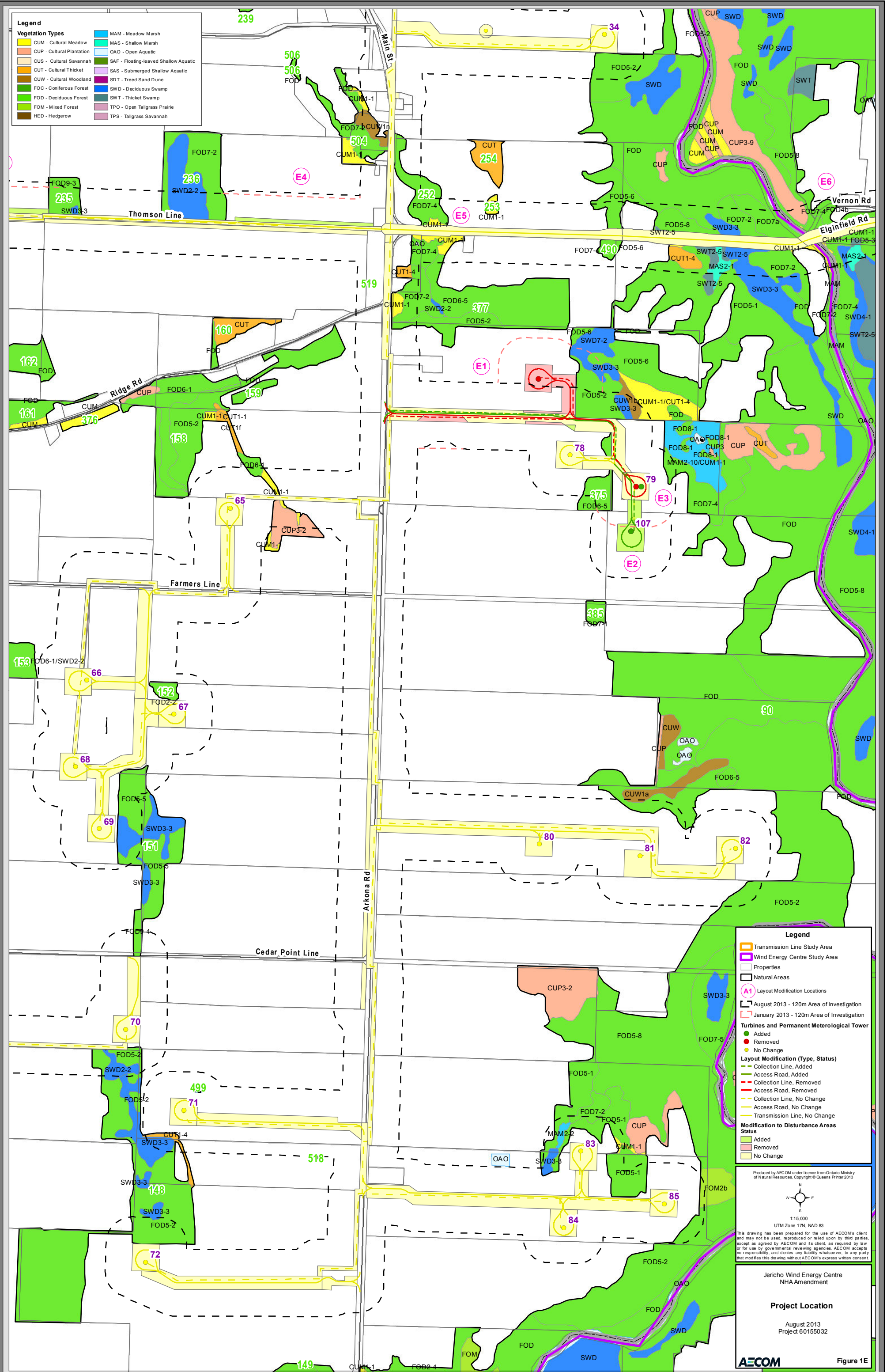
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| Legend | |
|---------------------------|---------------------------------------|
| Vegetation Types | |
| CUM - Cultural Meadow | MAM - Meadow Marsh |
| CUP - Cultural Plantation | MAS - Shallow Marsh |
| CUS - Cultural Savannah | OAO - Open Aquatic |
| CUT - Cultural Thicket | SAF - Floating-leaved Shallow Aquatic |
| CUW - Cultural Woodland | SAS - Submerged Shallow Aquatic |
| FOD - Deciduous Forest | SDT - Treed Sand Dune |
| FOM - Mixed Forest | SWD - Deciduous Swamp |
| HED - Hedgerow | SWT - Thicket Swamp |
| | TPO - Open Tallgrass Prairie |
| | TPS - Tallgrass Savannah |



| Legend | |
|---------------------|---|
| [Orange Box] | Transmission Line Study Area |
| [Purple Box] | Wind Energy Centre Study Area |
| [Grey Box] | Properties |
| [Blue Box] | Natural Areas |
| [Pink Circle] | Layout Modification Locations |
| [Red Dashed Line] | August 2013 - 120m Area of Investigation |
| [Black Dashed Line] | January 2013 - 120m Area of Investigation |
| [Green Dot] | Turbines and Permanent Meteorological Tower |
| [Red Dot] | Added |
| [Yellow Dot] | Removed |
| [White Dot] | No Change |
| [Green Line] | Layout Modification (Type, Status) |
| [Green Line] | Collection Line, Added |
| [Green Line] | Access Road, Added |
| [Red Line] | Collection Line, Removed |
| [Red Line] | Access Road, Removed |
| [Yellow Line] | Collection Line, No Change |
| [Yellow Line] | Access Road, No Change |
| [Yellow Line] | Transmission Line, No Change |
| [Green Box] | Modification to Disturbance Areas Status |
| [Green Box] | Added |
| [Pink Box] | Removed |
| [White Box] | No Change |

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AECOM Figure 1E

