



October 16, 2014

Mr. Vic Schroter, Director
Ministry of the Environment and Climate Change
Environmental Approvals Access and Service Integration Branch
2 St. Clair Avenue West
Toronto ON M4V1L5

Dear Mr. Schroter:

**Re: Application for Amendment to Grand Bend Wind Farm Renewable Energy
Approval #5186-9HBJXR
Project No.: PIA019991.0003**

As you know, the Grand Bend Wind Limited Partnership, with Northland Power Inc. ("Northland") as agent, are proposing to develop, construct and operate a 100 MW wind facility located north of Grand Bend, Ontario. The project has received Renewable Energy Approval under Ontario Regulation 359/09 of the Environmental Protection Act, from the Ministry of the Environment and Climate Change ("MOECC") issued June 26, 2014.

This application requests minor amendments to the above referenced Renewable Energy Approval to address two different components of the approval as follows:

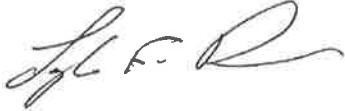
1. Changes to the temporary water takings and returns estimated during construction of the Project and;
2. An alternative method of access road construction proposed by the contractor.

Attached to this cover letter are two separate letters (previously submitted on September 16, 2014) that provide supporting information for each amendment item referenced above.

Northland would appreciate your earliest consideration of this application. Should your staff have any questions or other requirements associated with this application please do not hesitate to contact the undersigned.

Yours truly,

Neegan Burnside Ltd.

A handwritten signature in black ink, appearing to read 'L. Parsons', written in a cursive style.

Lyle Parsons, B.E.S.
Project Manager
LP:kc

Encl. Application with Attachments

cc: Mr. Jim Mulvale, Northland Power Inc. (enc.) Via: Email
 Mr. Gord Potts, Northland Power Inc. (enc.) Via: Email
 Mr. Nick Colella, Ministry of the Environment and Climate Change (enc.) Via: Email
 Mr. Rick Chappell, Ministry of the Environment and Climate Change (enc.) Via: Email
 Mr. Chris Shilton, Neegan Burnside Ltd. (enc.) Via: Email



September 16, 2014

Via: Email

Mr. Vic Schroter, Director
Ministry of the Environment and Climate Change
Environmental Approvals Access and Service Integration Branch
2 St. Clair Avenue West, Floor 12A
Toronto ON M4V 1L5

Dear Mr. Schroter:

**Re: Application for Amendment to Grand Bend Wind Farm Renewable Energy
Approval No.: 5186-9HBJXR
Water Taking Estimates
Project No.: PIA019991.0003**

Please find attached a summary of the hydrologic conditions for the Grand Bend Wind Farm project as it relates to permitting requirements for water taking activities during construction. The details provided herein form the basis for a request of an amended Renewable Energy Approval to address the following construction procedures:

- Temporary turbine foundation dewatering, and
- Temporary water takings and returns for watercourse diversion pumping during culvert installations.

This letter outlines the geological and hydrogeological conditions based on a desktop evaluation of available information including: documents submitted as part of the application for Renewable Energy Approval, water well records, regional cross sections and site-specific geotechnical borehole logs for each turbine location.

1.0 Temporary Turbine Foundation Dewatering

1.1 General Background

Grand Bend Wind Limited Partnership, with Northland Power Inc. ("Northland") as agent, are proposing to develop, construct and operate a 100 MW wind facility located north of Grand Bend, Ontario. The project has received Renewable Energy Approval under Ontario Regulation 359/09 of the Environmental Protection Act, from the Ministry of the Environment and Climate Change ("MOE"). The project is classified as a Class 4 Wind facility under the Regulation. The Grand Bend Wind Farm ("the Project") is located in Huron County, spanning the lower-tier municipalities of Bluewater and Huron South. Portions of the transmission line also traverse the municipality of Huron East and municipality of West Perth in Perth County.

One component of the application for Renewable Energy Approval included details regarding anticipated water taking during Project construction. As outlined in the Construction Plan Report for the Project, using a desktop review as a basis without site-specific geotechnical information, dewatering calculations indicated the rate of pumping for each proposed turbine foundation excavation was not anticipated to exceed 50,000 L/day/turbine location. Based on a review of the geotechnical data by the Project's contractor, and giving consideration to their planned construction methodology, it is apparent that additional water taking for turbine foundation dewatering may be required.

An overall Site Plan showing the Turbine Locations as well as several regional cross-sections are attached demonstrating the general subsurface conditions, also described in the following sections.

1.2 Previous Studies

Several reports have already been prepared for the Project in support of permitting and design requirements. Some of the relevant details from these reports as they relate to the hydrogeological setting are summarized in the following sections.

1.2.1 Geotechnical Report

In 2013, LVM prepared a draft geotechnical report, dated January 11, 2013. The report documented the advancement of at least three boreholes at each of the 48 turbine locations. The report documented the following:

- The subsurface stratigraphy generally comprises topsoil overlying glacial till with silt, sand and sand and gravel layers;
- Groundwater was encountered within the upper 3 m of soil deposits:
 - Minor seepage was observed at Turbine locations 4, 6, 9, 16, 17, 19, 20, 21 and 22; and,
 - Moderate groundwater seepage was noted at Turbine Locations 7, 11, 12, 14, 18, 24, 26, 27 and 28 between 0.6 to 1.2 m below existing ground surface.
- The majority of the native soils have relatively low permeability and are poorly drained;
- The report suggested that groundwater can be controlled by simple gravity dewatering methods using sump pumps (and perimeter drainage ditches) if required; and
- Many of the boreholes where groundwater was encountered documented a sand unit overlying the glacial till.

1.2.2 Construction Plan Report

The Construction Plan Report for this Project (Neegan Burnside, February 2013) included a desktop evaluation of geological mapping and water wells. The following observations were made in that report:

- The majority of the Turbine Sites are underlain by St. Joseph Till, which is a fine grained, stiff clayey silt to silty clay till, with a hydraulic conductivity of approximately 1×10^{-8} m/s;
- Overburden thickness generally exceed 25 m and a search of well records within 150 m of each location, demonstrates bedrock at least 14 m deep; and

- Static water levels in the wells were typically greater than 15 m deep, although higher perched water table may exist in localized areas. Water well records within 150 m of the Turbine Sites show only two wells with a static water level less than 5 m.

Based on these findings it is unlikely that water supply wells will be affected by turbine excavation or that significant water would be required for dewatering.

1.3 Dewatering Assumptions and Estimates

It is expected that each Turbine installation will require a 30 m x 30 m area to be excavated to a depth of 3 m. Dewatering is expected to take place using open trench with perimeter ditches collecting in a sump unless site-specific conditions warrant alternative methods (e.g., well point dewatering). There are many Turbine locations where shallow water table conditions were documented creating groundwater interface conditions between surficial sand deposits and the underlying till. Groundwater can enter the sidewalls of the excavation at these interfaces. The contractor and dewatering specialist retained to do this work will have to consider the hydrogeological conditions at each Turbine location to ensure that the dewatering methodology selected reflects the site-specific conditions.

Given that each turbine location has an individual hydrogeological setting; typical dewatering estimates were completed based on the following assumptions:

- Surface water runoff and tile drainage will be diverted around the excavation;
- The water table is 1 m below ground surface;
- Soils are a mid-range sand with a hydraulic conductivity of 1×10^{-4} m/s;
- The sand will extend to 1 m below the base of the excavation (it should be noted that the sand unit was typically less than 2 m thick, which would decrease the dewatering volumes significantly);
- Between 5 to 10 turbine excavations will be underway at any given time;
- The final water level after initial dewatering would be 0.5 m below the base of the excavation; and
- Dewatering rates are calculated based on steady state conditions.

Dewatering calculations based on the assumptions above are attached for reference. The following table summarizes the dewatering estimates and assumptions:

Parameter	Typical Turbine Foundation Excavation
Water table (m bgl)	1
Base of Sand unit (m bgl)	4 (1 m below excavation base)
Hydraulic Conductivity	1×10^{-4}
Size of Excavation	30 m x 30 m
Steady State Dewatering Volume (L/day/excavation)	219,000

Notes: m bgl – metres below ground level
L/day – litres per day.

Initial dewatering rates can be twice the estimated volumes until water is removed from storage and steady state conditions are reached. This could amount to dewatering requirements of up to 438,000 L/day per turbine foundation excavation.

2.0 Temporary Water Takings and Returns

2.1 General Background

During MOE's technical review of the Project's application for Renewable Energy Approval, MOE requested approximate rates and volumes that are expected to be pumped for the purpose of diverting watercourse flows during culvert installations. This diversion pumping was identified by MOE as "water takings and returns". The following information was provided to MOE in response:

Forecasted weather conditions will be monitored to ensure that culvert watercourse crossings are constructed "in the dry" to the greatest extent possible. In this case, there will be no watercourse flow, and these crossings will be constructed in accordance with the procedures outlined in the DFO operational statement "Isolated or Dry Open-cut Stream Crossings" appended to the water body report. In the event that the culverts are not constructed during periods of no watercourse flow (i.e., not "in the dry"), the additional measures for "Isolated Crossings" will be employed in accordance with the operational statement. In this case, surface water "takings and returns" would be required to bypass around the construction area. For the purposes of approximation as requested, flows were calculated assuming construction were to occur during conditions similar to those during the field work of the water body report site investigation. Under these conditions, the following flows would be required to be pumped around the construction area:

Crossing ID	Approximate Flow (m³/s)	Potential Duration of Construction	Resulting Maximum Volume (m³)
CR-031	0.025	up to 10 days	21,600
CR-032	0.017	up to 13 days	19,094
CR-041	0.036	up to 12 days	37,325
CR-023	0.003	up to 10 days	2,592
CR-018	0.083	up to 20 days	143,424
CR-013	N/A	up to 10 days	N/A

The calculated rates provided above and their corresponding maximum volumes (in the event that the full construction duration is required) were intended to provide approximate water takings and returns in the event of typical watercourse flows. They were not intended to establish maximum permissible pumping rates during the construction of the Project's watercourse culvert crossings, as was established in Condition H2 of the Renewable Energy Approval. Condition H2 provides limited ability for the Contractor to protect the isolated work area and watercourse in the event of unexpected weather events during construction.

2.2 Maximum Water Takings and Returns

In order to allow the Contractor to adequately respond to unexpected weather conditions during construction, maximum permissible water takings and returns need to consider a broader range of weather conditions that may occur during construction. As such, the Project's six proposed watercourse culvert crossings were analyzed in the event that a 5-year return storm would occur during construction. The maximum watercourse flows that would result at each crossing during the 5-year return storm are summarized below:

Source	Crossing ID	5-Year Storm Peak Flow Rate (m ³ /s)	5-Year Storm 24-hr Flow Volume (m ³)
Hay B (North Crossing)	CR-031	2.14	9,890
Hay B (South Crossing)	CR-032	3.59	21,820
Saint Joseph Airport South Drain	CR-041	3.57	13,550
Hay E	CR-023	1.37	4,890
Kading Drain	CR-018	8.58	44,630
Hay G	CR-013	1.48	4,700

3.0 Mitigation Measures

The Contractor will be required to prepare and implement an erosion and sedimentation control plan as outlined in the application for Renewable Energy Approval. The Contractor will also be required to adhere to all conditions of approval relating to erosion and sediment control and water taking, particularly those outlined in sections "G", "H", "I" and "J" of the approval. In addition to the requirements above, the Contractor will be required to implement all measures outlined in any permit(s) issued by the Ausable Bayfield Conservation Authority.

4.0 Concluding Remarks

The following conclusions and recommendations are presented for your consideration to amend the Renewable Energy Approval for the Project.

4.1 Erosion and Sedimentation Control

- Erosion and sedimentation control measures as referenced in Section 3.0 will be required to be implemented prior to and maintained during construction activities to ensure that potential impacts on receiving water bodies are mitigated.

4.2 Temporary Turbine Foundation Dewatering

- A sediment control system should be implemented before extracted groundwater is discharged.
- Dewatering contractors retained to complete dewatering work should satisfy themselves as to the subsurface conditions at each Turbine site and the appropriate dewatering techniques to be applied.
- A water well inventory survey should be completed prior to commencing dewatering activities to identify water supply wells currently in use up to 200 m from each Turbine site and document their condition and potential or need for water level monitoring. The focus will be on the wells closest to each site.

- An interference protocol should be developed and put in place during the construction and dewatering period in the event that a nearby water supply is adversely affected by the construction dewatering.
- The dewatering estimates presented in this letter are very conservative with initial dewatering rates of up to 438,000 L/day until steady state conditions are reached at each 30 m x 30 m x 3 m deep excavation. If excavation work for up to 10 Turbines begins at the same time, this could result in a total maximum dewatering requirement of 4,380,000 L/day. Once steady state conditions are reached, dewatering is expected to be in the order of 219,000 L/day or less for each 30 m x 30 m x 3 m deep excavation.
- It is recommended that Condition H1 of the Renewable Energy Approval be revised to permit a maximum of 4,380,000 L/day of water taking during construction in the form of foundation dewatering for the entire Project. This is considered to be a very conservative approach that addresses the range of site conditions documented in the geotechnical report.

4.3 Temporary Water Takings and Returns

- The Contractor will be required to implement all mitigation measures referenced in Section 3.0 for temporary water takings and returns, as required to construct the Project's six watercourse culvert crossings. In addition, dewatering from the isolated work areas will be required to be pumped at least 30 m away from the watercourse with appropriate erosion and sedimentation control mitigation measures in place.
- As noted in Section 2.1, forecasted weather conditions will be monitored to ensure that watercourse culvert crossings are constructed "in the dry" to the greatest extent possible.
- In the event that unexpected weather conditions are encountered during construction, it is recommended that the Contractor divert all watercourse flows with proper mitigation measures in place to isolate the work area and protect the watercourse.
- In order to allow the Contractor to adequately respond to unexpected weather conditions during construction, it is recommended that Condition H1 be revised to the following:

Notwithstanding Condition H1, the Company is authorized to take, via diversion of flow, from the sources, for the duration, and at the rates and amounts of taking specified in the following table. Water taken upstream of each source at the culvert work site shall be returned directly downstream of the site with no impoundment of water. Forecasted weather conditions shall be monitored and construction activities scheduled to satisfy the conditions in the following table. In the event that unexpected weather conditions during construction increase the watercourse flow beyond the limits in the following table, the Company shall divert the additional flow in the same manner, and keep a detailed record of these events.

Source	Crossing ID	Maximum Rate of Taking (m ³ /s)	Maximum number of days of taking	Maximum Volume of Taking (m ³)
Hay B (North Crossing)	CR-031	2.14	10	29,330
Hay B (South Crossing)	CR-032	3.59	13	39,446
Saint Joseph Airport South Drain	CR-041	3.57	12	47,764
Hay E	CR-023	1.37	10	7,223

Source	Crossing ID	Maximum Rate of Taking (m³/s)	Maximum number of days of taking	Maximum Volume of Taking (m³)
<i>Kading Drain</i>	<i>CR-018</i>	<i>8.58</i>	<i>20</i>	<i>180,883</i>
<i>Hay G</i>	<i>CR-013</i>	<i>1.48</i>	<i>10</i>	<i>4,700</i>


We trust this letter meets your requirements. If you need any additional information or have any questions, please contact the undersigned.

Yours truly,

Neegan Burnside Ltd.



Kim S. Hawkes, P.Eng., QP_{ESA}
Project Manager
LP:tw

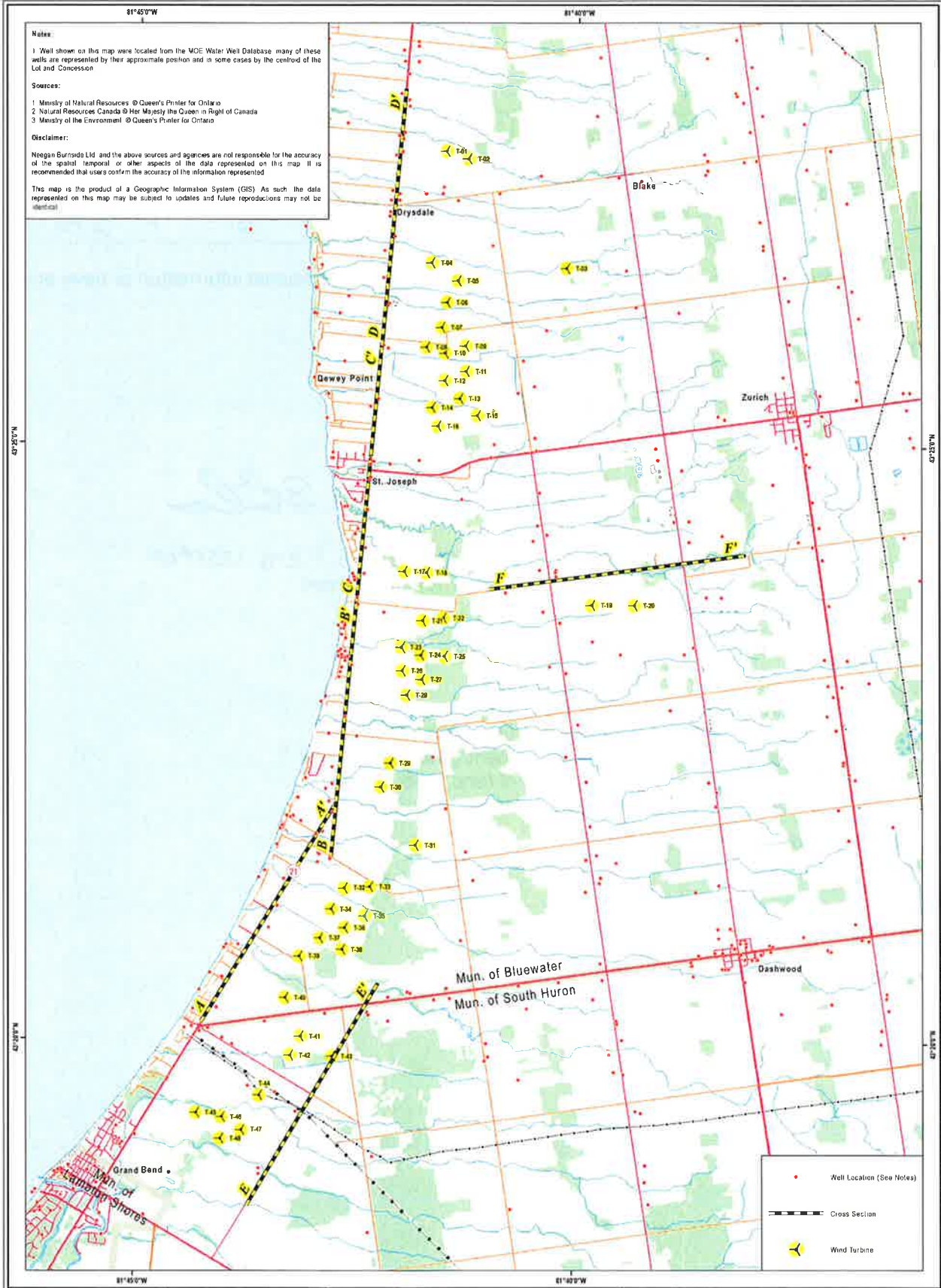


Chris Shilton, P. Eng., LEED[®]AP
Project Engineer

Enclosure(s)

cc: Gord Potts, Northland Power Inc. (enc.) Via: Email
Duncan Low, Northland Power Inc. (enc.) Via: Email
Nick Colella, Ministry of the Environment (enc.) Via: Email
Mili New, Ministry of the Environment (enc.) Via: Email
Lyle Parsons, Neegan Burnside Ltd. (enc.) Via: Email

PIA019991.003_Dewatering Ltr to MOE_140915
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Notes:

- 1 Well shown on this map were located from the WCE Water Well Database many of these wells are represented by their approximate position and in some cases by the centroid of the Lot and Concession


Sources:

- 1 Ministry of Natural Resources © Queen's Printer for Ontario
- 2 Natural Resources Canada © Her Majesty the Queen in Right of Canada
- 3 Ministry of the Environment © Queen's Printer for Ontario

Disclaimer:

Negan Burnside Ltd. and the above sources and agencies are not responsible for the accuracy of the spatial, temporal or other aspects of the data represented on this map. It is recommended that users confirm the accuracy of the information represented.

This map is the product of a Geographic Information System (GIS). As such, the data represented on this map may be subject to updates and future reproductions may not be identical.

Datum: North American 1983		 Grid North
Coordin. System: NAD 1983 UTM Zone 17N		
Projection: Transverse Mercator		
Central Meridian: 81°00'00"W		
False Easting: 500,000m False Northing: 0m		
Rollshift: 0	Scale Factor: 0.99960	

0 1 2 3 4
Kilometers

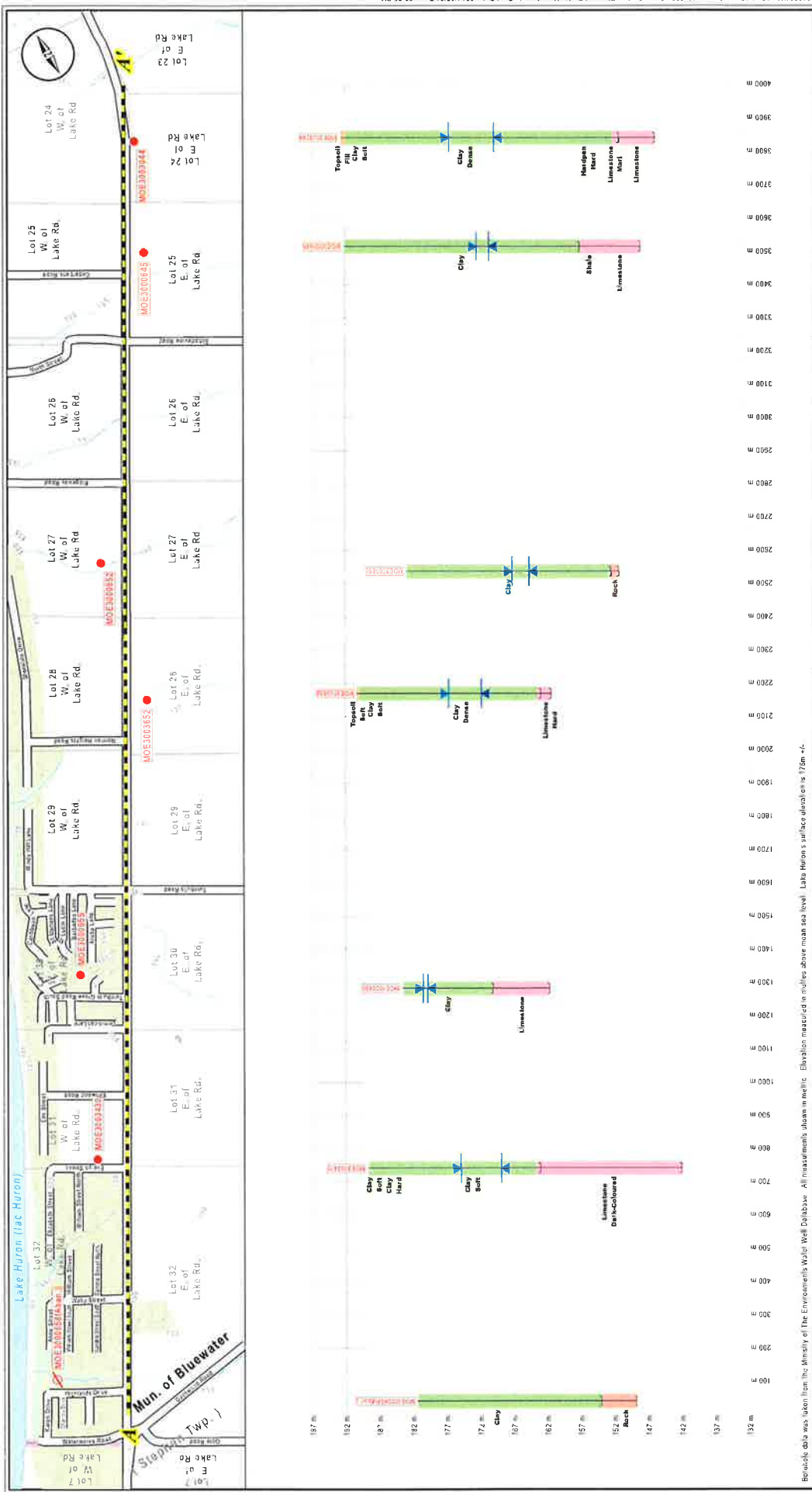
NEGAN BURNSIDE

Client:
GRAND BEND WIND LIMITED PARTNERSHIP

Map Title:
**GEOLOGIC PROFILE
CROSS SECTION OVERVIEW**

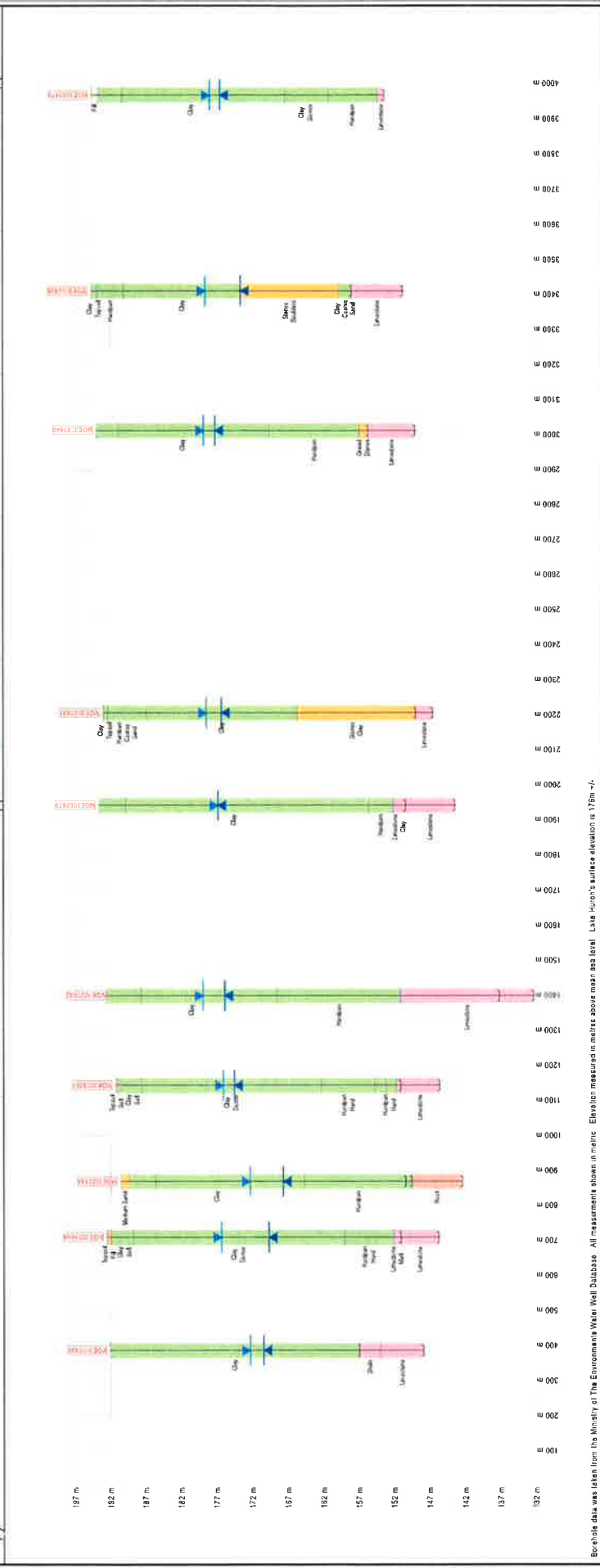
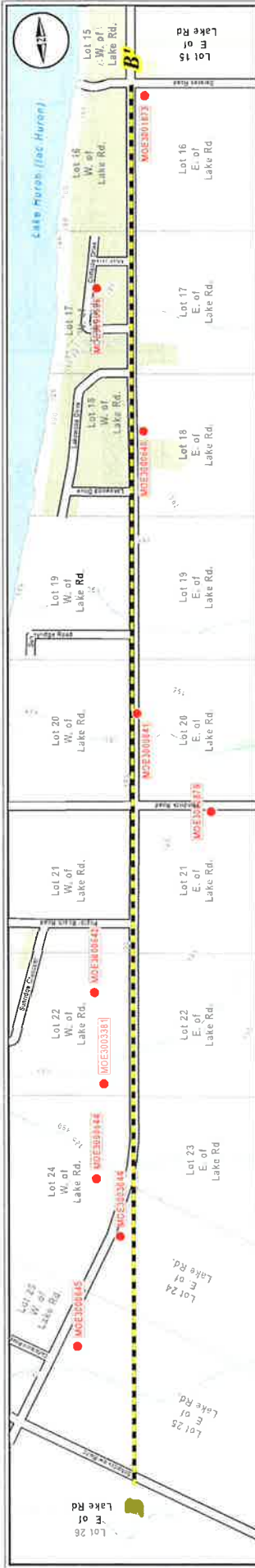
Drawn: PS	Checked: KH	Date: 2014/05/02	Figure No: 1/1
Scale: H 1:55,000		Project No: PIA019991	

Map Path: \\neganburnside.com\Projects\2014\PIA019991\GIS\Map\PIA019991_Geologic_Profile_Cross_Section_Overview_Map_140507.mxd 14/05/14



Benolds data was taken from the Ministry of The Environment's Multi Well Database. All measurements shown in metric. Elevation measured in metres above mean sea level. Lake Huron's surface elevation is 75m +/-.

Top Soil / Organic Deposits Fine Grained Material / Deposits Sand / Gravel / Unconsolidated Rock (Unidentified) Substratum / Rock	Static Water Level Static Water Level After Pumping	Well Supply Well Abandonment	GEOLOGIC PROFILE CROSS SECTION A - A'		Figure No. 1/6
			 NEEGAN BURNSIDE GRAND BEND WIND LIMITED PARTNERSHIP		Drawn: PS Checked: KH Date: 2014/05/01 Project No: PIA019991



Borehole data was taken from the Ministry of the Environment's Water Well Database. All measurements shown in metric. Elevation measured in meters above mean sea level. Lake Huron's surface elevation is 175m +/-.

NEEGAN BURNSIDE

GRAND BEND WIND LIMITED PARTNERSHIP

GEOLOGIC PROFILE

CROSS SECTION B - B'

Drawn	PS	Checked	DS
Vertical Exaggeration:	20x	Date:	2014/05/01
Project No.:	PIA019991	Figure No.:	2/6

- Well Supply
- Full Penetration Dipmeter Unknown Material
- Top Soil Organic Deposits
- Fine Grained Silt/Clay Deposits
- Coarse Grained Silt/Clay Deposits
- Rock (Undifferentiated)
- Sedimentary Rock
- Slack Water Level
- Slack Water Level After Pumping



Borehole data was taken from the Ministry of The Environment's Water Well Database. All measurements shown in metres above mean sea level. Lake Huron's surface elevation is 176m +/-.

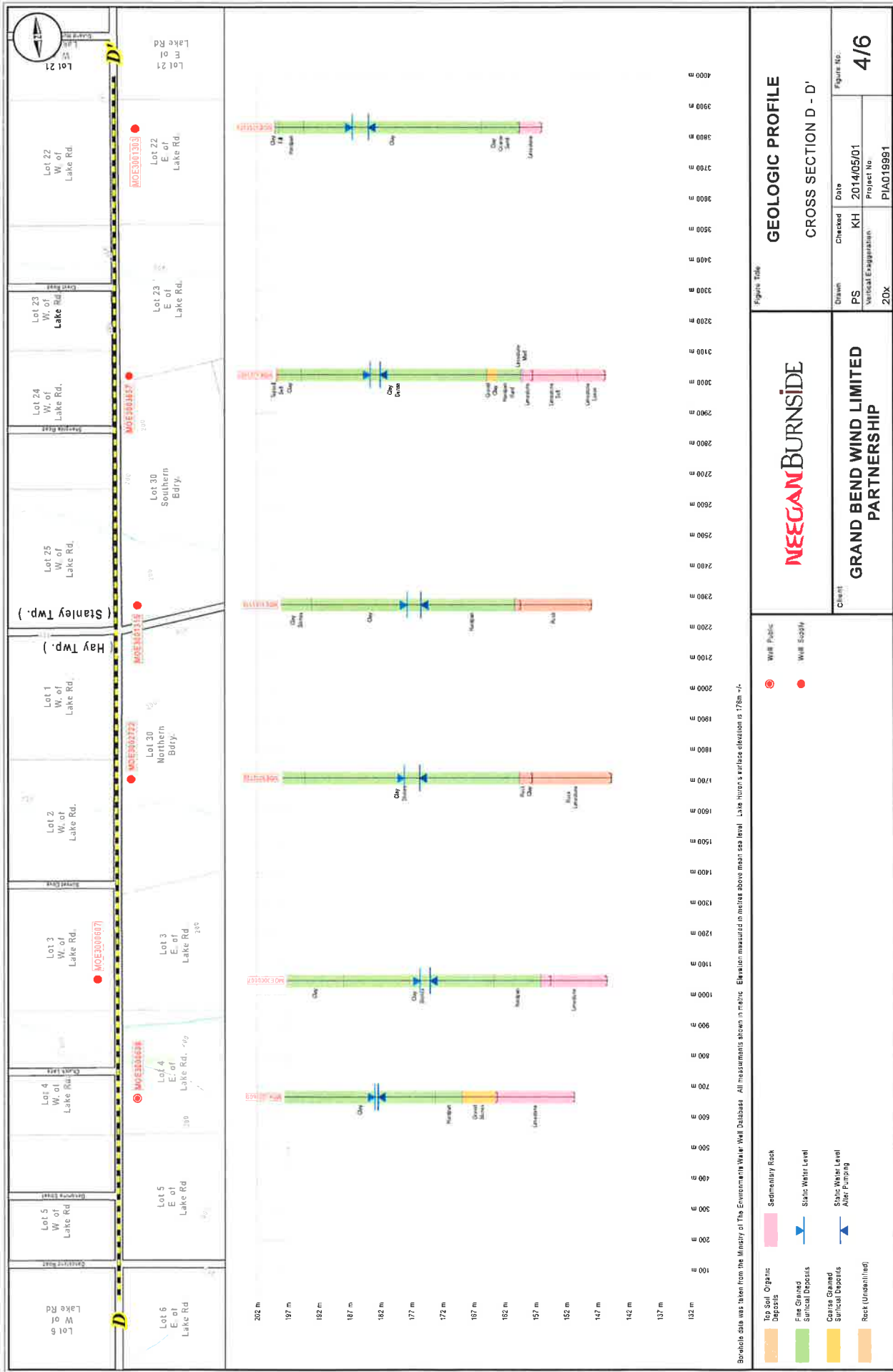
NEEGAN BURNSIDE

GRAND BEND WIND LIMITED PARTNERSHIP

Well Supply

Figure Title: **GEOLOGIC PROFILE**
CROSS SECTION C - C'

Drawn	Checked	Date	Figure No.
PS	DS	2014/05/01	3/6
Vertical Exaggeration		Project No.	
20X		PIA0119991	



Borehole data was taken from the Ministry of The Environment Water Well Database. All measurements shown in metric. Elevation measured in metric above mean sea level. Lake Huron's surface elevation is 178m +/-.

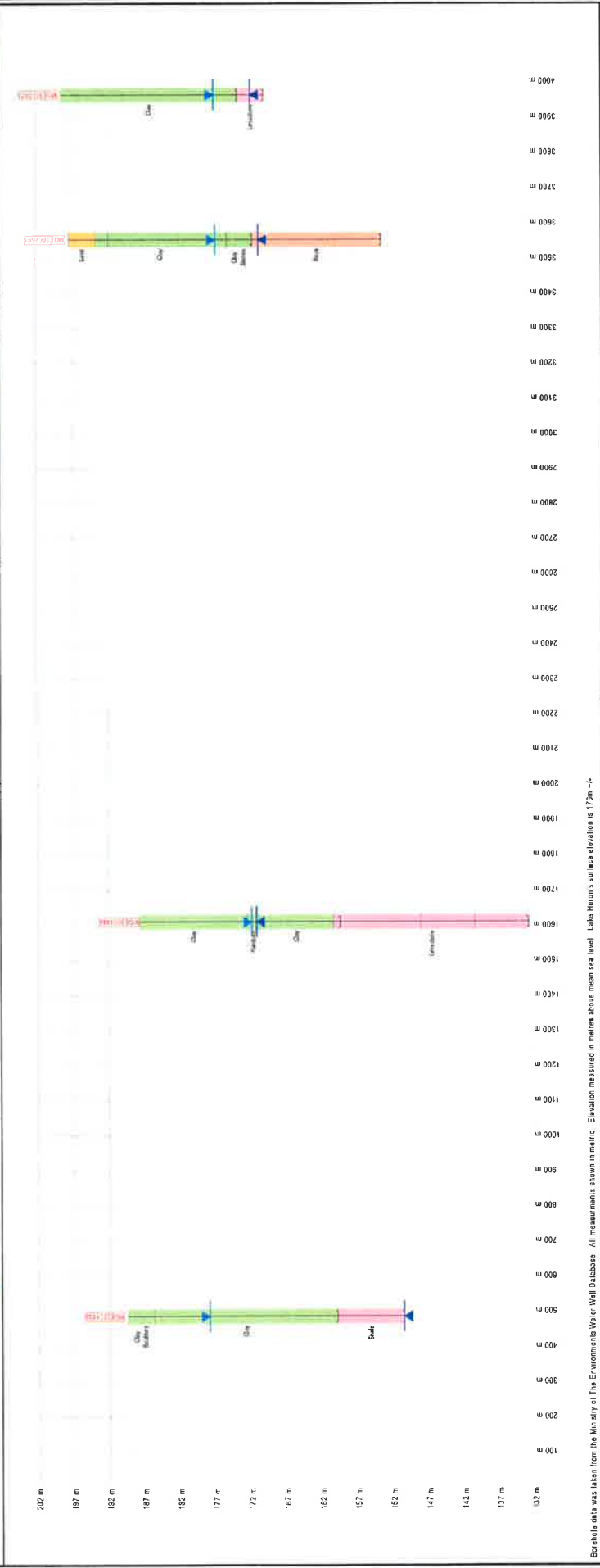
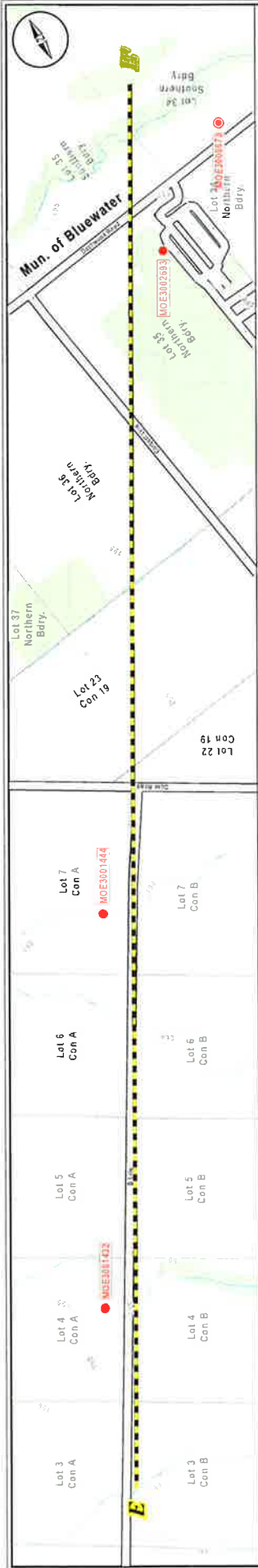
Figure Title		Figure No.	
GEOLOGIC PROFILE		CROSS SECTION D - D'	
Drawn	Checked	Date	2014/05/01
PS	KH		
Vertical Exaggeration		Project No.	
20X		PIA019991	

NEEGAN BURNSIDE

GRAND BEND WIND LIMITED PARTNERSHIP

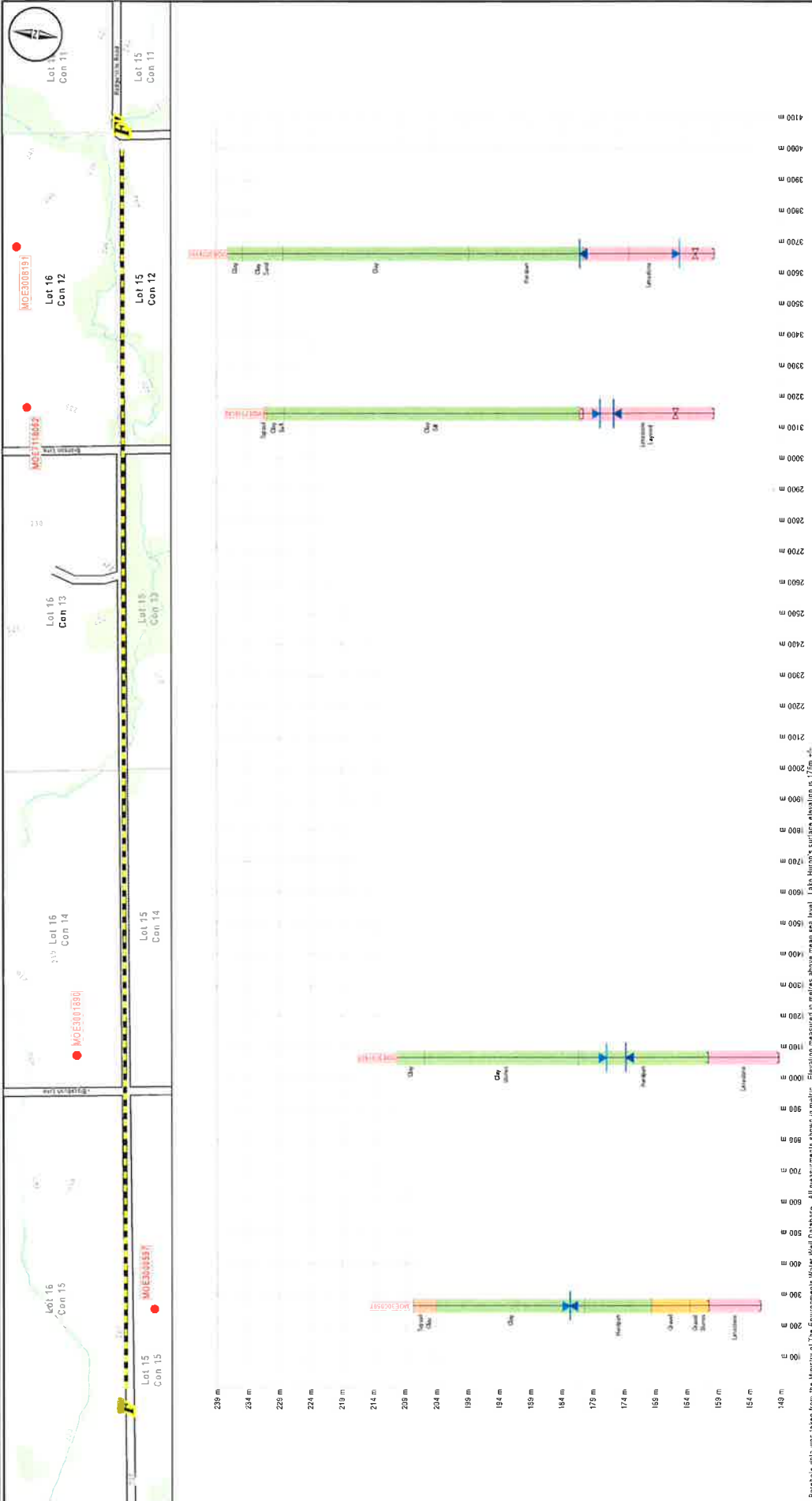
- Will Public
- Will Supply

- Top Soil Organic Deposits
- Fine Grained Surficial Deposits
- Coarse Grained Surficial Deposits
- Rock (Unconsolidated)
- Sedimentary Rock
- Static Water Level
- Static Water Level After Pumping



Borehole data was taken from the Ministry of The Environment's Water Well Database. All measurements shown in metric. Elevation measured in meters above mean sea level. Lake Huron's surface elevation is 178m +/-.

		GEOLOGIC PROFILE CROSS SECTION E - E'	
Client GRAND BEND WIND LIMITED PARTNERSHIP	Figure Title GEOLOGIC PROFILE CROSS SECTION E - E'	Drawn PS	Checked KH
Vertical Engraving 20X	Date 2014/05/01	Project No. P/A019891	Figure No. 5/6



		GEOLOGIC PROFILE CROSS SECTION F - F'	
Client:	GRAND BEND WIND LIMITED PARTNERSHIP	Drawn:	PS
Checked:	KH	Date:	2014/05/01
Vertical Exaggeration:	20X	Project No.:	PIA019891
Figure Title:	Figure Title		
Figure No.:	6/6		

Borehole data was taken from the Ministry of the Environment Water Well Database. All measurements are in metric. Elevation measured in meters above mean sea level. Lots have a surface elevation of 12m.

Dewatering Estimation Equation is for flow of a well of equivalent radius

$$Q = \frac{\pi K(H^2 - h^2)}{\ln\left(\frac{R_0}{r_s}\right)} + \left[\frac{xK(H^2 - h^2)}{2L} \right]$$

From: Powers et al, Construction Dewatering and Groundwater Control, 3rd Edition, 2007.

Turbine Excavations - typical Scenario Basic Assumptions

Where:

- K is hydraulic conductivity [m/s];
- H is saturated thickness of aquifer before pumping [m];
- h is saturated thickness of aquifer under pumping conditions [m];
- R_0 is radius of pumping influence [m];
- r_s is equivalent radius of pumping well [m];
- x is length of trench [m];
- L is distance from line source [m];
- Q is pumping rate [m³/s];

Q is pumping rate [sensitivity test];

$$R_0 = 3000(H - h)\sqrt{K}$$

From: Powers et al, Construction Dewatering and Groundwater Control, 3rd Edition, 2007.

Where:

- H is saturated thickness of aquifer before pumping [m];
- h is saturated thickness of aquifer under pumping conditions [m];
- K is hydraulic conductivity [m/s];
- R_0 is radius of pumping influence [m];

- Value Units
- 1.00E-04 m/s
- 3.00 m
- 0.50 m
- 75.00 m
- 19.10 m
- 120.00 m
- 100.00 m
- 0.002535 m³/s

- assumed based on BH logs - mid range value for Sand
- Assumed base of sand unit is 1 m below base of excavation & water table at 1 m)
- assumes that water level to go 0.5m below the base of the excavation
- See calculations assumptions below
- assumed $r_s = (L+W)/\pi = (22+22)/\pi$
- four sides 30 m each - 120 m
- arbitrary assumption
- 219,000 L/day

- Value Units
- 3.00 m
- 0.50 m
- 1.00E-04 m/s
- 75.00 m



September 16, 2014

Via: Email

Mr. Vic Schroter, Director
Ministry of the Environment and Climate Change
Environmental Approvals Access and Service Integration Branch
2 St. Clair Avenue West, Floor 12A
Toronto ON M4V 1L5

Dear Mr. Schroter:

**Re: Application for Amendment to Grand Bend Wind Farm Renewable Energy
Approval No.: 5186-9HBJXR
Alternate Wind Farm Access Road Construction Methodology
Project No.: PIA019991.0003**

The details provided herein, form the basis for a request to amend a Renewable Energy Approval to address an alternative method of access road construction for the Project.

General Background

Grand Bend Wind Limited Partnership, with Northland Power Inc. ("Northland") as agent, are proposing to develop, construct and operate a 100 MW wind facility located north of Grand Bend, Ontario. The project has received Renewable Energy Approval under Ontario Regulation 359/09 of the Environmental Protection Act, from the Ministry of the Environment and Climate Change ("MOE"). The project is classified as a Class 4 wind facility under the Regulation. The Grand Bend Wind Farm ("the Project") is located in Huron County, spanning the lower-tier municipalities of Bluewater and Huron South. Portions of the transmission line also traverse the municipality of Huron East and municipality of West Perth in Perth County.

Alternative Access Road Construction Method

In our February 2013 final Construction Plan Report approved by the then MOE an access road construction methodology was included in Section 2.3.5 on page 9. In general, standard road construction techniques were expected to construct the access roads and turbine installation areas as follows:

"Prior to the placement of aggregate, a geotextile material may be required to reinforce the subsurface soils. Granular 'A' and 'B' will then be placed and compacted to form the base and sub-base structure of the road, allowing surface water to drain freely across the access road. The thickness of granular material will be approximately 0.3 m to 0.7 m to facilitate the movement of heavy construction equipment. Further accuracy of the access road granular composition will be developed during detailed design, after a geotechnical investigation of the subsurface soils has been performed."

The contractor has recently proposed use of a soil/cement mix for portions of the access roads. This access road construction method is described below:

First, surface organic vegetation is removed. Using a grinder/pulverizing machine, 300 mm of subgrade is prepared by mixing. At this stage, field tile drain modifications will be made as required to maintain existing agricultural drainage and prevent migration of access road materials to receiving watercourses. Following this, a spreader places a mixture of water and cement powder based on the soil moisture content. Next a mixer which also monitors moisture content mixes the cement and water with the soil and it is then compacted by a sheep's foot roller. Following this a grader and a smooth roller finish the subgrade. Finally a skim coat consisting of 50 mm of Granular 'A' (crushed gravel) or stone chips (minus 10 mm screenings) are placed on the surface. The proposed soil/cement access road outlined above will meet the definition of "inert fill" as stipulated in Ontario Regulation 347.

This soil/cement access road construction method will not be used within 30 m of the six watercourses to be crossed by the access roads. In these areas, the granular access road construction method described in the Construction Plan Report will be used.

Concluding Remarks

Based on the construction methodology and watercourse setbacks outlined above, no additional negative impacts are anticipated as a result of the proposed soil/cement access roads.

On behalf of Northland we request the MOECC amend Renewable Energy Approval, Number 5186-9HBJXR, issued June 26, 2014 to allow this alternative access road construction method.

We trust this letter meets your requirements. If you need any additional information or have any questions, please contact the undersigned.

Yours truly,

Neegan Burnside Ltd.



Lyle Parsons, B.E.S.
Project Manager
LP:kc:tw

Enclosure(s)

cc: Mr. Jim Mulvale, Northland Power Inc. Via: Email
Mr. Gord Potts, Northland Power Inc. Via: Email
Mr. Nick Colella, Ministry of the Environment Via: Email
Mr. Chris Shilton, Neegan Burnside Ltd. Via: Email

General Information and Instructions

General

Information requested in this form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990 (EPA) and will be used to evaluate this application for a Renewable Energy Project. Questions about this collection of information should be directed to: Information Unit Supervisor, Environmental Assessment and Approvals Branch, 2 St. Clair Ave. W, Floor 12A, Toronto ON M4V 1L5. Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001.

Instructions

1. **Applicants are responsible for ensuring that they complete the most recent application form.** Application forms and supporting documentation are available from the Environmental Assessment and Approvals Branch toll free at 1-800-461-6290 (locally at 416-314-8001), from your local District Office of the Ministry of the Environment, and in the "Publications" section of the Ministry of the Environment website at www.ene.gov.on.ca.
2. Questions regarding completion and submission of this application should be directed to the Environmental Assessment and Approvals Branch, 2 St. Clair Avenue West, Floor 12A, Toronto, Ontario, M4V 1L5, telephone number 1-800-461-6290 or (416) 314-8001, or to your local District Office of the Ministry of the Environment.
3. **Complete Submission**
In order to be eligible for the issue of a renewable energy approval, a person who proposes to engage in a renewable energy project shall, before submitting an application to the Director,
 - 1) prepare the application in a form or format approved by the Director;
 - 2) obtain or prepare, as the case may be, any documents that,
 - a) are required under Part IV to be submitted as part of the application, or
 - b) are to be submitted as part of the application for the purposes of obtaining an exemption from a provision of Part V; and
 - c) comply with all other requirements of Part IV of Ontario Regulation 359/09.
 - 3) If there is more than one person applying for the issue of a renewable energy approval in respect of a renewable energy project, those persons shall jointly submit one application for the issue of a renewable energy approval.
 - 4) An application to alter the terms and conditions of a renewable energy approval shall be prepared in a form or format approved by the Director and shall be submitted to the Director.

Supporting documents

- 1) A person who proposes to engage in a renewable energy project shall submit a document set out in Column 1 of Table 1 of the Regulation as part of an application for the issue of a renewable energy approval in respect of the project if it is a project described opposite the document in Column 3.
- 2) If a document set out in Column 1 of Table 1 of the Regulation is submitted as part of an application for the issue of a renewable energy approval, the person who is engaging in the renewable energy project shall ensure that the document meets the requirements set out opposite the document in Column 2 of Table 1 of the Regulation.
- 3) Any document submitted as part of an application for the issue of a renewable energy approval shall be in writing.
- 4) Any document submitted as part of an application for the issue of a renewable energy approval that is a diagram, map or plan shall be drawn to scale and shall include a scale bar and a north arrow.

INCOMPLETE APPLICATIONS WILL BE RETURNED TO THE APPLICANT.

The Ministry may require additional information during the technical review of any application.

4. If you are submitting your application electronically, electronic PDF application form should be completed and submitted by email to REAESubmission@ontario.ca. Once the application has been received, you will receive an acknowledgement email with an MOE reference number for your application and additional instructions for submitting your hard copy application package and supporting information.

If you are not submitting your application electronically, the original application form and all required supporting documents must be sent to:

**The Ministry of the Environment,
Director, Environmental Assessment and Approvals Branch,
2 St. Clair Avenue West, Floor 12A, Toronto, Ontario, M4V 1L5**

A copy of the complete application must be sent to any local Ministry District Office having jurisdiction over the project location. To locate the appropriate local Ministry District Office, please visit the Ministry of the Environment Internet site at: www.ene.gov.on.ca/envision/org/op.htm#Reg/Dist.

A cover letter addressed to the Director of Environmental Assessment and Approvals Branch should accompany both submissions and indicate that a copy of the complete submission has been sent to each District Office that has jurisdiction over the project location.

5. Information collected by the Ministry of the Environment is subject to the *Freedom of Information and Protection of Privacy Act* (FOIPPA). If you are of the view that any part of your application is confidential on the grounds such information constitutes a trade secret or scientific, technical, commercial, financial or labour relations information, please make this known now. Otherwise, the Ministry may make the information available to the public without further notice to you.

For Office Use Only		
Reference Number	Date (y/m/d)	Initials

Form ID: 1139995

Application Summary

<input checked="" type="checkbox"/>	<p>Project Name <i>(Project identifier to be used as a reference in correspondence)</i></p> <p>Grand Bend Wind Farm</p>
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<input checked="" type="checkbox"/>	<p>Project Description Summary <i>(This summary should reflect the description in the documents upon which consultation has been completed and if it does not, the difference should be highlighted)</i></p> <p>Grand Bend Wind Limited Partnership, with Northland Power Inc. ("Northland") as agent, are proposing to develop, construct and operate a 100 MW wind facility located north of Grand Bend, Ontario. An approval was granted on June 26, 2014, under Ontario Regulation 359/09 of the Environmental Protection Act, numbered 5186-9HBJXR. The project is classified as a Class 4 Wind facility under the Regulation. The Grand Bend Wind Farm ("the Project") is located in Huron County, spanning the lower-tier municipalities of Bluewater and Huron South. Portions of the transmission line also traverse the municipality of Huron East and municipality of West Perth in Perth County. The basic project components will include 40 Siemens direct drive wind turbine generators with a total name plate capacity of 100 MW, turbine access roads, a 36 kV electrical collection system, substation, a parts and storage (office/maintenance) building, a new transmission line within municipal road right-of ways ("ROWS") along Sararas Road, Rodgerville Road, and Road 183 with connection to the provincial power grid at the 230 kV transmission line south of the Seaforth Transformer Station. During construction temporary components will include access roads and work/storage areas at the turbine locations and transmission connections. Northland is seeking a minor amendment to permit an alternative access road construction method on private properties. It is also seeking an amendment to allow a change to the temporary water taking estimates previously approved.</p>
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Required Information	Completed (yes or no)
<input checked="" type="checkbox"/> Project Name & Description	Yes
<input checked="" type="checkbox"/> Section 1: Applicant Information	Yes
<input checked="" type="checkbox"/> Section 2: Project Information	No - Please complete section 2.2: Statement of Project Technical Information Contact
<input checked="" type="checkbox"/> Section 3: Site Information	Yes
<input checked="" type="checkbox"/> Section 4: Required Documents	Yes
Application Status: FORM INCOMPLETE. Please Complete the sections as indicated above.	

Section 1: Applicant Information



1.1 Applicant Information *(Owner of works/facility)*

Applicant Name <i>(legal name of individual or organization as evidenced by legal documents)</i> Grand Bend Wind Limited Partnership by its general partner Grand Bend Wind GP Inc.		Business Identification Number 150890390
Business Name <i>(the name under which the entity is operating or trading - also referred to as trade name)</i> Northland Power Inc.		<input type="checkbox"/> same as Applicant Name
Applicant Type: <input type="checkbox"/> Corporation <input type="checkbox"/> Federal Government <input type="checkbox"/> Individual <input type="checkbox"/> Municipal Government <input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Provincial Government <input type="checkbox"/> Sole Proprietor <input type="checkbox"/> Other <i>(describe):</i>		North American Industry Classification System (NAICS) Code 221119 Other Electric Power Generation
Business Activity Description <i>(a description of the business endeavour, this may include products sold, services provided or machinery/equipment used, etc.)</i> Develops, builds, owns and operates clean and green power generation projects, mainly in the provinces of Ontario, Quebec, and Saskatchewan.		



1.2 Applicant Physical Address

Civic Address- Street information <i>(includes street number, name, type and direction)</i> 30 St. Clair Avenue West, 12th Floor				Unit Identifier <i>(i.e. apartment number)</i>
Survey Address <i>(Not required if Street Information is provided)</i>	Lot	Conc.	Part	Reference Plan
Municipality /Unorganized Township Toronto	County/District	Province/State Ontario	Country Canada	Postal Code M4V 3A1
Telephone Number <i>(include area code & ext.)</i> 416-962-6262 ext.	Fax Number <i>(include area code)</i> (416)962-6266	Mobile Number <i>(include area code)</i>	E-mail Address	



1.3 Applicant Mailing Address

Same as Applicant Physical Address? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(if no, please provide site address information below)</i>	
Civic Address - Street information <i>(civic numbering and street information including street number, name, type and direction)</i> 30 St. Clair Avenue West, 12th Floor	
Delivery Designator	Delivery Identifier
Municipality /Unorganized Township Toronto	Province/State Ontario
Country Canada	Postal Code M4V 3A1



1.4 Statement of Applicant

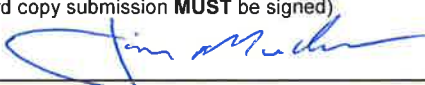
I, the undersigned hereby declare that, to the best of my knowledge:		
<ul style="list-style-type: none"> The information contained herein is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the <i>Environmental Protection Act</i>. I understand that by submitting this form, I am guaranteeing the completeness and accuracy of all the information provided on this form and included in the draft reports. Failure to submit the correct information will result in an incomplete application being returned. The Project Technical Information Contact identified below is authorized to act on my behalf for the purpose of obtaining approval under section 47.3 of the EPA for the Project identified herein. 		
Name of Signing Authority <i>(please print)</i> Jim Mulvale	Title Northland Power Inc., Manager, Environment, Health & Safety	
Telephone Number <i>(including area code & extension)</i> (647)288-1273 ext.	Fax Number <i>(including area code)</i> (416)962-6266	E-mail Address jim.mulvale@Northlandpower.ca
Mobile Number <i>(including area code)</i>	Signature 	Date (y/m/d) 2014/10/22

Section 2: Project Information

2.1 Application Type

Type of Application:			
<input type="checkbox"/> New Renewable Energy Approval		Where Applicable provide Existing Renewable Energy Approval Number:	
<input checked="" type="checkbox"/> Amendment to Renewable Energy Approval		<u>5186-9HBJXR</u>	
Application Initiated by:			
<input checked="" type="checkbox"/> Proponent		<input type="checkbox"/> Environmental Assessment and Approvals Branch	
<input type="checkbox"/> Provincial Officer Order (attach copy)		<input type="checkbox"/> Other (specify):	
Current Certificate(s) of Approval <i>(please attach a separate list if more space is required)</i>			
Certificate of Approval Number	Date of Issue (yyyy/mm/dd)	Certificate of Approval Number	Date of Issue (yyyy/mm/dd)
Certificate of Approval Number	Date of Issue (yyyy/mm/dd)	Certificate of Approval Number	Date of Issue (yyyy/mm/dd)
Current Permit(s) to Take Water <i>(please attach a separate list if more space is required)</i>			
Permit Number	Date of Issue (yyyy/mm/dd)	Permit Number	Date of Issue (yyyy/mm/dd)
Permit Number	Date of Issue (yyyy/mm/dd)	Permit Number	Date of Issue (yyyy/mm/dd)
Project Schedule			
Estimated date for start of construction/installation (yyyy/mm/dd)		Estimated date for start of operation (yyyy/mm/dd)	
2015/01/01		2016/02/28	

2.2 Statement of Project Technical Information Contact

Is the Project Technical Information Contact the same as the Applicant (identified in Section 1)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
I, the undersigned hereby declare that, to the best of my knowledge:			
<ul style="list-style-type: none"> • The information contained herein and the information submitted in support of this application (electronically and in hard copy) is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184(2) of the <i>Environmental Protection Act</i>. • I understand that by submitting this form, I am guaranteeing the completeness and accuracy of this form and the draft documents. Failure to submit the correct information will result in the application being returned as incomplete. • That the information contained in the electronically submitted application form is the same as the information submitted in the hard copy submission. • I have used the most recent application form (as obtained from the "publications" section of the Ministry of the Environment website at www.ene.gov.on.ca or from the Environmental Assessment and Approvals Branch at 1-800-461-6290). 			
Name of Project Technical Information Contact		Company	
Jim Mulvale		Northland Power Inc.	
Telephone Number <i>(include area code & ext.)</i>	Fax Number <i>(include area code)</i>	Mobile Number <i>(include area code)</i>	E-mail Address
(647)288-1273 ext.	(416)962-6266		jim.mulvale@northlandpower.ca
Signature <i>(hard copy submission MUST be signed)</i>		Date (yyyy/mm/dd)	
		2014 / 10 / 22	
Address Information:			
Same as Applicant Mailing Address? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, please provide technical information contact address information below)</i>			
Civic Address - Street information <i>(civic numbering and street information including street number, name, type and direction)</i>			Unit Identifier <i>(i.e. apartment number)</i>
30 St. Clair Avenue West, 12th Floor			
Delivery Designator	Delivery Identifier	Postal Station	
Municipality /Unorganized Township	Province/State	Country	Postal Code
Toronto	Ontario	Canada	M4V 3A1

2.3 Other Approvals for Facility – Please attach a separate list if more space is required

Separate list attached? Yes No

List all other environmental approvals/permits applied for related to this project or received in relation to this project

Approval Number	Approval Date (yyyy/mm/dd)	Approval Number	Approval Date (yyyy/mm/dd)	Approval Number	Approval Date (yyyy/mm/dd)
REA Approval : 5186-9HBJXR	2014/06/26				

Ontario Power Authority (OPA) Registration ID (if applicable)
Contract: F-002178-WIN-130-601

Ontario Power Authority (OPA) Reference Number (if applicable)

2.4 Type of Renewable Energy Generation Facility (select all that apply)

Wind Facility	Biofuel / Biogas / Other	Anaerobic Digestion Facility	Thermal Treatment Facility	Solar Photo Voltaic Facility
<input type="checkbox"/> Class 2	<input type="checkbox"/> Biofuel	<input type="checkbox"/> Class 1	<input type="checkbox"/> Class 1	<input type="checkbox"/> Class 3
<input type="checkbox"/> Class 3	<input type="checkbox"/> Biogas	<input type="checkbox"/> Class 2	<input type="checkbox"/> Class 2	
<input checked="" type="checkbox"/> Class 4	<input type="checkbox"/> Other	<input type="checkbox"/> Class 3	<input type="checkbox"/> Class 3	
<input type="checkbox"/> Class 5	If other, please describe:			

2.5 Generation of Electricity

Total Maximum Name Plate Capacity		Total Expected Generation Capacity	
100	MW (1 MW = 1000 kW / 1 kW = 0.001 MW)	99.32	MW (1 MW = 1000 kW / 1 kW = 0.001 MW)
Days and Hours of Operation			
365 days/year, 24 hours/day			

Section 3: Site Information



3.1 Project Location - (the site/location where project will be located)

Same as Applicant Physical Address? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if no, please provide site address information below)					
Civic Address- Street information (includes street number, name, type and direction)					Unit Identifier (i.e. apartment number)
Multiple					
Survey Address <i>(Legal description of the site)</i>	Lot	Conc.	Part	Reference Plan	
See Appendix D		of the Project	Description	Report	
Municipality / Unorganized Township	County/District		Postal Code		
Multiple	Huron		N0M 0A0		
Non Address Information (where the project spans many locations or a large rural area, specify how the project area relates to the address provided)					
<p>The Project is located on multiple properties in Huron County, spanning the lower-tier municipalities of Bluewater and Huron South. Portions of the transmission line also traverse the municipality of Huron East and municipality of West Perth in Perth County. The Project study area as defined by the consultation requirements of O.Reg. 359/09 is generally bound by Lake Huron to the west, Main St./Grand Bend Line to the south, Bronson Line to the east, Staffa Rd. to the north, and a transmission line along Sararas Rd., Rodgerville Rd., and Road 183 with connection to the provincial power grid southeast of Seaforth. Refer to Appendix D of the Project Description Report for a list of legal descriptions of participating properties and Attachment 2 for a map of the Project location.</p>					
Geo Reference (southwest corner of property)					
Map Datum	Zone	Accuracy Estimate	Geo Referencing Method	UTM Easting	UTM Northing
NAD83	17	+/- 2m	GIS	438377	4796410



3.2 Municipal or local authority Information - (List all municipal or board authorities where the project is located)

Local Municipality / Unorganized Township (Include each Single Tier or Lower Tier in which the project location is situated. Attach a separate list if more space is necessary)					
Name of Municipality	Address			Phone	
Bluewater	14 Mill Ave., Zurich, ON, N0M 2T0			519-236-4351 223	
Clerk's Name	Clerk's Phone/Fax		E-Mail Address		
Charlene Overholt, Deputy Clerk	(519)236-4351		c.overholt@town.bluewater.on.ca		
Is the project location situated in one or more Upper Tier Municipality? (i.e., county, regional or district municipality.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
List all Upper Tier Municipalities that the project location is situated in. Attach a separate list if more space is necessary					
Name of Municipality	Address			Phone	
Huron County	1 Courthouse Square, Goderich, ON, N7A 1M2			519-524-8394	
Clerk's Name	Clerk's Phone/Fax		E-Mail Address		
Barb Wilson	(519)524-8394		huronadmin@huroncounty.ca		
Is the project location situated in a Local Roads Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
List all Local Roads Areas that the project location is situated in. Attach a separate list if more space is necessary					
Name of local roads board	Address			Phone	
Secretary-treasurer's Name	Secretary-treasurer's Phone/Fax		E-Mail Address		
Is the project location in a Local Service Board area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
List all Local Service Board areas the project location is situated in. Attach a separate list if more space is necessary					
Name of Local Service Board	Address			Phone	
Secretary's Name	Secretary's Phone/Fax		E-Mail Address		

Section 3.2 – Municipal or Local Authority Information

Name of Municipality	Address	Phone
Municipality of Huron East	72 Main Street S., P.O. Box 610, Seaforth, ON N0K 1W0	519-527-0160
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Brad Knight	519-527-0160	bknight@huroneast.com

Name of Municipality	Address	Phone
Municipality of West Perth	169 St. David St. P.O. Box 609, Mitchell, ON N0K 1N0	519-348-8429 x224
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Florence Stalenhoef	519-348-8429 x224	info@westperth.com

Name of Municipality	Address	Phone
Municipality of South Huron	322 Main Street South, P.O. Box 759, Exeter, ON N0M 1S6	519-235-0310 x222
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
James Hutson, Building & Development Clerk	519-235-0310 x222	info@southhuron.ca

Upper Tier Municipality

Name of Municipality	Address	Phone
Perth County	1 Huron Street, Stratford, ON N5A 5S4	519-271-0531 x120
Clerk's Name	Clerk's Phone/Fax	E-Mail Address
Kerri Ann O'Rourke	519-271-0531 x120	clerk@perthcounty.ca

 **3.3 Site Information - (information about the site/location where project will be located)**

Site Name	MOE District Office
Grand Bend Wind Farm	Owen Sound Area Office
Is in any portion of the Project location on federally owned land or a reserve?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is in any portion of the Project location on Crown Land?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location that is the subject of this application owned by the Applicant?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no, please attach the owner's name, address and a signed letter granting consent for the installation and operation of the facilities</i>	
Is the Applicant the operating authority of the facility that is the subject of this application?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no, please attach the operating authority name, address and phone number</i>	
Is the Project location in the area of the Niagara Escarpment Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the area subject to the Oak Ridges Moraine Conservation Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the Protected Countryside as shown in Schedule 1 to the Greenbelt Belt Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the Lake Simcoe Watershed as defined in the Lake Simcoe Protection Act, 2008?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the Project location in the Central Pickering Development Planning Area as shown in Schedule 1 to the Central Pickering Development Plan?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has an Archaeological Report (s. 22) been prepared as part of the complete submission?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Has a Heritage Report (s.23) been prepared as part of the complete submission?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Has an Environmental Impact Study Report (s.38, s. 41 or s. 43) been prepared as part of the complete submission?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Has a Water body Report (s.39, s. 40, s.44 s. 45) been prepared as part of the complete submission?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Section 4: Required Documents – Table 1 of the Regulation



4.1 Supporting Information Checklist - This is a list of all supporting information to this application and is subject to the FOIPPA and EBR.

Mandatory	Attachment	Attached	Reference	Confidential* (√)
★ Yes	Proof of Legal Name of Applicant	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See attachment #1	<input type="checkbox"/>
★ Yes	A map that identifies the project location.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See attachment # 2	<input type="checkbox"/>
★ Yes	Name, Address and Phone Number of the Operating Authority	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See attachment # 3	<input type="checkbox"/>
★ Yes	Name, Address and consent of land/site owner for the installation/construction and operation of the facility	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Supplied with original application	<input checked="" type="checkbox"/>
★ Yes	Project Description Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Supplied with original application and approved	<input type="checkbox"/>
★ Yes	Design and Operations Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Supplied with original application and approved	<input type="checkbox"/>
★ Yes	Decommissioning Plan Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Supplied with original application and approved	<input type="checkbox"/>
★ Yes	Construction Plan Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Supplied with original application and approved	<input type="checkbox"/>
★ Yes	Consultation Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Supplied with original application and approved	<input type="checkbox"/>
	Development Permit under the <i>Niagara Escarpment Planning and Development Act</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/>
★ Yes	A copy of this application has been sent to the local district office(s)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Owen Sound District Office	<input type="checkbox"/>

Other Information Submitted in Support of the Application for a Renewable Energy Project		
Title	Reference	Confidential* (√)
★ Application for Amendment, Alternate Wind Farm Access Road Construction Methodology	Letter to Vic Schroter dated September 16, 2014	<input type="checkbox"/>
★ Application for Amendment, Water Taking Estimates	Letter to Vic Schroter dated September 16, 2014	<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
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		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
Are you attaching an additional list of attachments? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If there is not enough space to list all of the attachments included in this application package, please include an additional listing of these attachments.	<input type="checkbox"/>

***Please note:** the release of information contained in application forms and documentation submitted in support of applications for approval is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This Act defines what may and may not be disclosed to the public, and is used to assess all requests for information contained in the documents on file with an application for approval. The information submitted with an application for approval may also be subject to the *Environmental Bill of Rights*. In those situations, the application and the associated non-confidential supporting documentation is made available for review by members of the public. The applicants should therefore identify all documents or portions of documents as noted above which are to be considered confidential and must provide detailed evidence in support of this claim. This evidence will be one of the factors the ministry would consider when making a decision regarding disclosure of specific documents on file.

Attachment 1



Print clearly in CAPITAL LETTERS / Écrivez clairement en LETTRES MAJUSCULES Page _____ of / de _____

1. Declaration Type / Type de déclaration		Page _____ of / de _____	
A. <input type="checkbox"/> New / Nouvelle	B. <input type="checkbox"/> Name Change / Modification de la raison sociale	C. <input type="checkbox"/> Change (other than name change) / Changement (autre que modification de la raison sociale)	
D. <input checked="" type="checkbox"/> Renewal Without Name Change / Renouvellement sans modification de la raison sociale	E. <input type="checkbox"/> Renewal With Name Change / Renouvellement avec modification de la raison sociale	F. <input type="checkbox"/> Dissolution / Dissolution	G. <input type="checkbox"/> Withdrawal / Retrait
Enter the Business Identification Number (BIN) for all Declaration Types except Type A. / Entrez le n° d'identification de l'entreprise (NIE) pour tous les types de déclaration, sauf pour le type A.		BIN (Business Identification No.) / NIE N° d'identification de l'entreprise 150890390	

2. Firm Name / Raison sociale de la société en commandite
GRAND BEND WIND LIMITED PARTNERSHIP

3. Mailing Address of Registrant / Adresse postale de registrant	Street No. / N° de rue	Street Name / Nom de la rue	Suite No. / Bureau n°
	30	ST. CLAIR AVENUE WEST	1700
	City / Town / Ville	Province / Province	Country / Pays
	TORONTO	ONTARIO	CANADA
			Postal Code / Code postal
			M4V 3A1

4. Address of Principal Place of Business in Ontario / Adresse de l'établissement principal en Ontario

Same as above / comme ci-dessus Extra-Provincial Limited Partnership without business address in Ontario / Société en commandite extraprovinciale sans établissement en Ontario

Street No. / N° de rue	Street Name / Nom de la rue	Suite No. / Bureau n° (P.O. Box not acceptable / Case postale non acceptés)
City / Town / Ville	Province / Province	Country / Pays
		Postal Code / Code postal

5. General Nature of Business / Nature générale de l'activité exercée
WIND POWER PROJECT

6. Information Regarding General Partner(s) / Renseignements sur le ou les commandités

(A) Individual / Personne physique - Last Name / Nom de famille First Name / Prénom Middle Name / Autre prénom

(B) Corporation, Partnership etc. / Personne morale, société en nom collectif etc. - Name / Raison sociale Ontario Corporation Number / N° matricule de la personne morale en Ontario

GRAND BEND WIND GP INC. 1668574

Address / Adresse	Street No. / N° de rue	Street Name / Nom de la rue	Suite No. / Bureau n°
30		ST. CLAIR AVENUE WEST	1700
City / Town / Ville	Province / Province	Country / Pays	Postal Code / Code postal
TORONTO	ONTARIO	CANADA	M4V 3A1

Signature of General Partner or Attorney for the General Partner / Signature du commandité ou de son procureur

X Check if signing as attorney on behalf of the general partner pursuant to s. 32 of the Limited Partnerships Act. / Cochez la case ci contre si le signataire est le procureur du commandité (art. 32 de la Loi)

Print Name of Signatory / Nom du signataire en lettres moulées
ANTHONY F. ANDERSON, C.F.O.

For a new Declaration, name change or renewal, Item 6 must be completed and signed by all the general partners or their attorneys. If there is more than one general partner, set out the total number of partners in the box and attach additional schedule(s) / Pour une nouvelle Déclaration, une modification de la raison sociale ou un renouvellement, il faut remplir la section 6 pour chaque commandité, et chaque commandité ou son procureur doit signer la section 6. S'il y a plus d'un commandité, entrez le nombre total de commandités dans la case ci contre et remplissez et joignez une ou des annexes.

Number of General Partners / Nombre de commandités
1

7. Jurisdiction of Formation / Territoire d'origine
ONTARIO

8. Information Regarding Attorney/Representative for an Extra-Provincial Limited Partnership - (Does not apply to limited partnerships formed in another Canadian jurisdiction that have an office or other place of business in Ontario) / Renseignements sur le procureur / représentant de la société en commandite extraprovinciale - (Ne s'applique pas aux sociétés en commandite d'un autre territoire canadien qui ont un établissement en Ontario)

Power of Attorney - Check the box to confirm there is an executed Power of Attorney (Form 4) appointing the person/corporation listed below to be the attorney and representative in Ontario. The attorney/representative is required to keep the executed Form 4 available for inspection at the address set out below. / Procuration - Cochez la case ci-contre pour confirmer qu'il y a une Procuration signée (Formule 4) nommant la personne physique ou morale indiquée ci-dessous à titre de procureur et représentant en Ontario. Celui-ci doit tenir la Formule 4 signée à disposition aux fins d'inspection à l'adresse ci-dessous.

Attorney / Representative - Procureur / représentant

(A) Individual / Personne physique - Last Name / Nom de famille First Name / Prénom Middle Name / Autre prénom

(B) Corporation, Partnership etc. / Personne morale, société en nom collectif etc. - Name / Raison sociale Ontario Corporation Number / N° matricule de la personne morale en Ontario

Address / Adresse	Street No. / N° de rue	Street Name / Nom de la rue	Suite No. / Bureau n°
City / Town / Ville	Province / Province	Country / Pays	Postal Code / Code postal

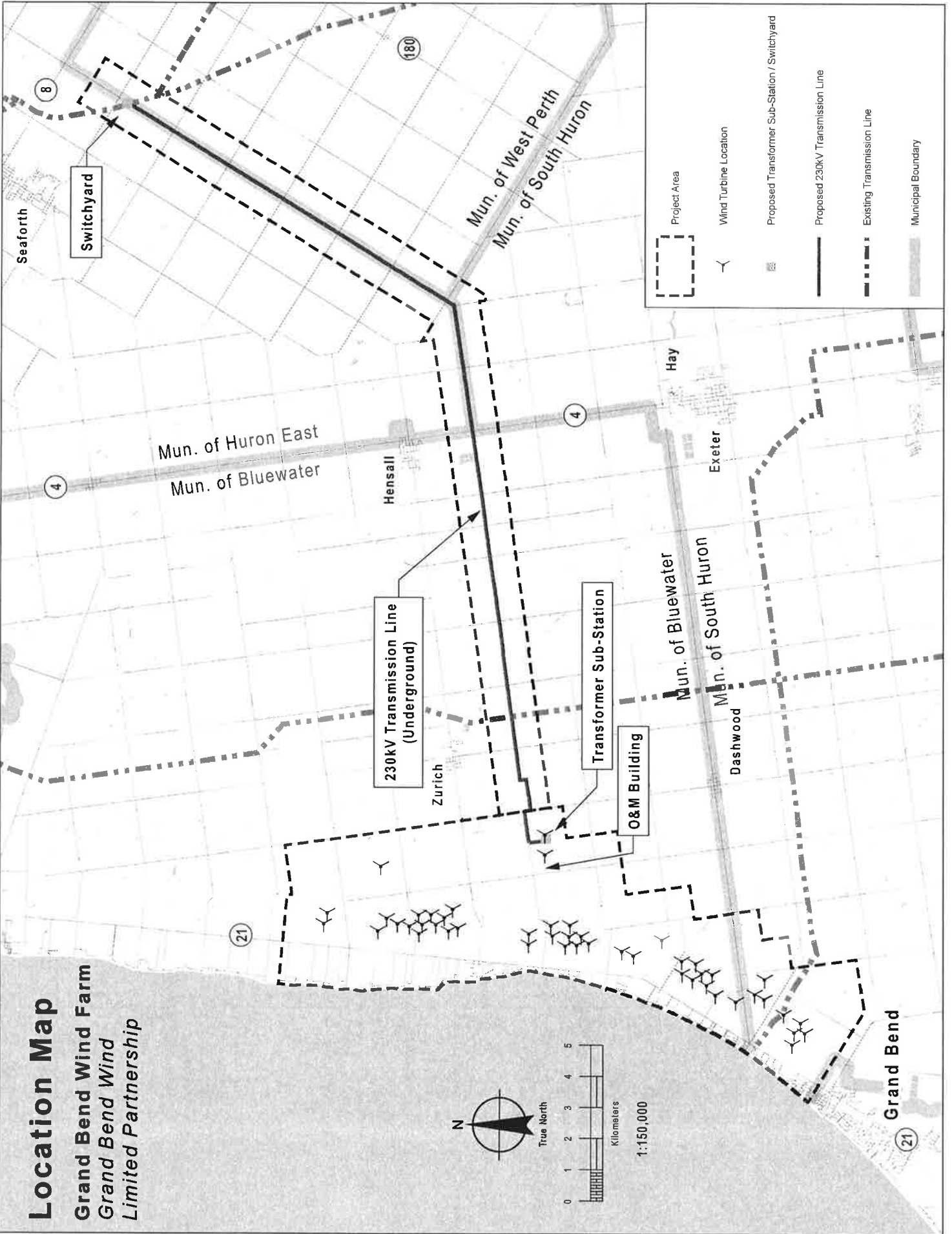
MINISTRY USE ONLY - RÉSERVÉ AU MINISTÈRE

BIN/EIN: 150890390
NAME/ NOM: GRAND BEND
REG/ENR: 2010-06-14
EXP/EXP: 2015-08-07

Attachment 2

Location Map

Grand Bend Wind Farm
Grand Bend Wind
Limited Partnership



Attachment 3

**Application for Approval of a Renewable Energy Project, Form Version 1.1,
Section 3.3: Site Information (Q4 – Operating Authority)**

Operating Authority for the Grand Bend Wind Farm

Name	Northland Power Inc.
Address	Attention: David Dougall, Vice President, Operations 30 St. Clair Avenue West, Suite 1200 Toronto, Ontario M4V 3A1
Phone Number	416-962-6262