
Appendix B
Correspondence

Northland Power Grand Bend Wind Farm
Records Review Contact List
Project No. PIA 019991

Agency/Organization	Title	First Name	Last Name	Position	Address	Contact Information
Environment Canada Ontario Region	Mr.	Rob	Dobos	Manager, Environmental Assessment Section	P.O. Box 5050 867 Lakeshore Road Burlington ON L7R 4A6	Tel: Fax: E-mail:
Environment Canada- Canadian Wildlife Service	Mr.	John	Fischer	Environmental Assessment Coordinator	867 Lakeshore Road Burlington ON L7R 4A6	Telephone : 905- 336-4961
Fisheries and Oceans Canada Southern Ontario District Office	Sir / Mada m			Regional Environmental Assessment Analyst	3027 Harvester Road, Unit 304 Burlington ON L7R 4K3	Tel: Fax: E-mail:
Fisheries and Oceans Canada Southern Ontario District Office	Mr.	Rick	Kiriluk	Fish Habitat Biologist	3027 Harvester Road Unit 304 Burlington, Ontario L7R 4K3	Telephone : 905- 639-6378
Ministry of Northern Development, Mines and Forestry	Ms.	Jennifer	Lillie-Paetz	Environmental Assessment Coordinator	Willet Green Miller Ctr Level B6 933 Ramsey Lake Rd Sudbury, ON P3E 6B5	Tel: 705-670- 5918 Fax: E-mail: Jennifer.lillie- paetz@ontario.ca
Ministry of Northern Development, Mines and Forestry	Mr.	Marc	Leroux	Manager, Information Services	Willet Green Miller Ctr Level B6 933 Ramsey Lake Rd Sudbury, ON P3E 6B5	Tel: 705-670- 5869 Fax: E-mail: marc.leroux@ont ario.ca
County of Huron	Ms.	Claire	Dodds	County Planner	1 Courthouse Sq. Goderich, ON N7A 1M2	Tel: (519) 235- 0310 x238 Fax:

Northland Power Grand Bend Wind Farm
 Records Review Contact List
 Project No. PIA 019991

Agency/Organization	Title	First Name	Last Name	Position	Address	Contact Information
						E-mail: cdodds@huroncounty.ca
County of Huron	Mr.	Craig	Metzger	Senior Planner	1 Courthouse Sq. Goderich, ON N7A 1M2	Tel: (519-524- 8394 x235 Fax: E-mail: cmetzger@huron county.ca
Municipality of South Huron	Mr.	Dwayne	McNab	Manager of Building & Development	1 Courthouse Sq. Goderich, ON N7A 1M2	Tel: (519) 235- 0310 x237 Fax: E-mail: d.mcnab@southhuron.ca
Municipality of Bluewater	Ms.	Arlene	Parker	Planning Coordinator	Box 250 14 Mill Ave. Zurich, ON N0M 2T0	Tel: (519) 236- 4351 x235 Fax: E-mail: planninginfo@town.bluewater.on.ca
Ausable Bayfield Conservation Authority	Mr.	Geoff	Cade	Supervisor of Water and Planning	71108 Morrison Line, RR#3 Exeter, ON N0M 1S5	Tel: (519) 235- 2610 Fax: (519) 235- 1963 E-mail: gcade@abca.on.ca
Huron Fringe Field	Ms.	Catherin	Hogg	President	Box 143	

Northland Power Grand Bend Wind Farm
 Records Review Contact List
 Project No. PIA 019991

Agency/Organization	Title	First Name	Last Name	Position	Address	Contact Information
Naturalists		e			Kincardine, ON	
York University	Dr.	Laurence	Parker	Professor	Rm 209A Lumbers Building York University 4700 Keele Street Toronto, Ontario. M3J 1P3	Phone: 416-736-2100 ext. 22663 eromelissa@mail.com



October 24, 2011

Via: Mail

«Title» «First_Name» «Last_Name»
«Position»
«AgencyOrganization»
«Address»

Dear «Title» «Last_Name»:

**Re: Northland Power Grand Bend Wind Farm
Request for Information: Records Review
File No.: PIA 019991**

Northland Power Inc. has retained Neegan Burnside Ltd. (Neegan Burnside) to prepare an application for a Renewable Energy Approval, under Ontario Regulation 359/09 of the *Environmental Protection Act* for a proposed 100 MW wind power project near Grand Bend, ON. The proposed project is categorized as a Class 4 Wind Facility and is located within the project study area presented in Figure 1, attached.

At this stage, Neegan Burnside is conducting a Records Review, as required as part of the Natural Heritage Assessment. The Records Review includes a review of existing data sources to confirm the potential presence of significant natural features.

Neegan Burnside is requesting that your agency/organization provide us with any data or records that you may have relating to the natural environment so that we can include these in our assessment of potential impacts.

Burnside is seeking information, including:

- Records of significant natural features, including species at risk, wildlife habitats, aquatic habitat, etc;
- Geological information including the presence of karst topography/caves etc. that could provide bat hibernacula;
- Other background information that is pertinent to the compilation of an environmental inventory of the general area of study; and,
- Any preliminary comments or concerns that your agency has on the proposed project.

It is essential to the success of this project that the concerns of your agency, and other stakeholders, are identified early in the planning process, such that the appropriate environmental protection measures are incorporated into the overall project design. Your input and questions are encouraged.

To provide the study team with your comments or for further information please contact Tricia Radburn, Environmental Planner at 519-823-4995 x479 or by email at tradburn@neeganburnside.com.

Please indicate to us your interest in providing input to this project by responding to this letter. All interested stakeholders will be kept up-to-date on project status by means of future mailings, or inclusion in project meeting, as deemed appropriate.

Your participation in this Renewable Energy Approval process is much appreciated.

Yours truly,

Neegan Burnside Ltd.

Lyle Parsons, B.E.S.
Project Manager

019991_Records Review Letter.doc
24/10/2011 1:45 PM



Northland Power Grand Bend Wind Farm

Craig Metzger

to:

tradburn

10/31/2011 11:37 AM

Cc:

planninginfo

Show Details

History: This message has been forwarded.

2 Attachments



R15.06 By-law No. 07-2009.pdf D15BLU Northland Power - 20111024 Parsons.pdf

Dear Ms. Radburn,

I recently received the attached correspondence from Lyle Parsons of your firm requesting preliminary comments and other information for Northland Power's proposed wind energy facility (the Grand Bend Wind Farm). In response and as a first step, I believe it would be helpful for your firm and/or Northland Power to meet with Bluewater Municipal staff (including myself) to discuss your project. Sometime after that meeting, a presentation by your firm and/or Northland Power to Bluewater's Planning Committee (a Committee of Council composed of all Bluewater Councillors) to provide a brief overview of the project and Northland Power would also be appropriate.

From the size of your study area and the nameplate capacity of the proposed project it appears the project will be among the largest in Bluewater. Consequently, it's important that the Municipality (both Council and staff) be fully briefed on the project so they're better able to respond to requests from the proponent as well as questions from the public.

The contact person at the Municipality of Bluewater for arranging both the meeting with staff and appearing as a delegation at the Bluewater Planning Committee is Arlene Parker, Planning Coordinator (planninginfo@town.bluewater.on.ca or 519-236-4351).

I've also attached Municipality of Bluewater By-law 7 of 2009 which amended the local zoning by-laws to include requirements related to wind energy facilities. Although this by-law was appealed to the Ontario Municipal Board (a hearing has not been held) and the Green Energy and Green Economy Act invalidates a large portion of it, nevertheless it does represent the Municipality's clearly expressed intentions for wind energy facilities at a broad level. There will likely be an expectation that the project will demonstrate how it has considered this by-law.

Sincerely,

Craig

Craig Metzger
Senior Planner
Huron County Planning & Development Department
57 Napier Street
Goderich, ON N7A 1W2
519-524-8394, ext. 235 (Goderich)
519-236-4351, ext. 228 (Zurich)
519-524-5677 (fax)



RECEIVED
OCT 31 2011

October 27, 2011

R.J. BURNSIDE & ASSOCIATES
LIMITED

Neegan Burnside Ltd.
Unit 20, 292 Speedvale Avenue West
Guelph, ON N1H 1C4

Attn: Lyle Parsons, B.E.S., Project Manager

Re: Request for Information: Records Review Your File No.: PIA019991

Dear Lyle Parsons:

We received your letter today wherein you requested extensive information/records relating to the Northland Power Grand Bend Wind Farm. The information you provided was not sufficiently detailed enough for us to effectively address your request and we would, therefore, request that representatives from Northland Power schedule a meeting with us. We would be interested in knowing more information about the proposed project so we may analyze and evaluate what issues may be of concern to us. In particular we need a draft site plan so we may assess the physical and safety aspects, other technical issues and resident impacts that are within the jurisdiction of the municipality.

Respecting the information you requested regarding natural features, species at risk, wildlife and aquatic habitat, geological information and environmental inventory, please direct your request to the following agencies:

Ausable Bayfield Conservation Authority, RR 3, Exeter, ON N0M 1S6
Ontario Ministry of Natural Resources
Ontario Ministry of Tourism and Culture

You may access our Official Plan at:

<https://bluewater.civicweb.net/Documents/DocumentList.aspx?ID=2450>.

The Municipality of Bluewater would request that a copy of all draft reports be provided to us when they are complete.

*The Corporation of the Municipality of Bluewater
P.O. Box 250, 14 Mill Ave. Zurich, ON N0M 1G0
Ph: (519) 236-4351 F: (519) 236-4329*

Please consider this letter as our official notice that we will have specific comments and concerns and require that additional information be provided to us so that we may analyze and articulate these concerns.

Sincerely,

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

Lori Wolfe, CAO
(519) 236-4351 x226



December 15, 2011

Via: Email (hard copy to follow)

Mr. Geoff Cade
Supervisor of Water and Planning
Ausable Bayfield Conservation Authority
71108 Morrison Line, RR #3
Exeter, ON N0M 1S5

Dear Mr. Cade:

**Re: Follow-up to Our October 24, 2011 Letter Requesting a Records Review,
Northland Power Grand Bend Wind Farm, Grand Bend, ON
File No.: PIA 019991**

Thank you for your phone call on November 24, 2011. Neegan Burnside Ltd. (Neegan Burnside) and Northland Power Inc. appreciate the difficulties your organization faces when reviewing a large number of complex wind farm projects. We hope to make your review of our application as easy as possible. As such, this letter is intended to provide you with additional details about our project, where we are in the Renewable Energy Approval process and how we hope to coordinate with the Ausable Bayfield Conservation Authority ("ABCA") with respect to the ongoing review and approval of this project.

Data Request

Neegan Burnside has been retained by Northland Power Inc. to prepare a Renewable Energy Approval application under O.Reg. 359/09. We are currently in the early stages of project development and are focused on preparing the Natural Heritage Assessment component of the REA application in accordance with the *Natural Heritage Assessment Guide for Renewable Energy Projects* (MNR, 2011)¹.

1

According to the Guide, the Natural Heritage Evaluation must be undertaken in four stages as follows:

- Stage 1: Records Review;
- Stage 2: Site Investigation;
- Stage 3: Evaluation of Significance; and,
- Stage 4: Environmental Impact Study Report.

We are currently at the Records Review stage. At this stage, we are required to contact agencies and organizations who may have records of known and previously documented natural heritage features in the vicinity of our Study Area. Based on the results of the findings, we will tailor our field investigations to confirm the presence and significance of potential features.

We are, therefore, only requesting information associated with the Records Review at this time. The type of information we are seeking is, for example:

- Records of species at risk or known habitats (specifically including whether you have any records of redbreast dace or black redhorse in the area);
- The findings of any fish sampling that the ABCA may have completed within the watercourses traversing our Study Area;
- Any known permanent vs. intermittent stream classifications;
- Any valleylands in the Study Area;
- Seepage areas; or,
- Any other relevant records relating to significant natural features in the area that we should be aware of.

The specific layout and design of our project will reflect the findings of the Records Review and subsequent field investigations.

Please note that we conducted a Preliminary Constraints Analysis for Northland last spring. This was outside of the REA process and was intended to provide Northland with a general description of the type environmental constraints in the area so they could make a decision as to whether or not to pursue the project. At that time, we obtained the following information:

- a shapefile of the ABCA's Regulation Limit (only included the outer limit, not individual regulated features such as valleylands); and,
- drain classifications.

We do not wish to duplicate your efforts, so please do not re-issue this information.

Attached is a figure showing our Study Area and the Records Review that we obtained from the MNR. There is no need to duplicate any records that have previously been provided to us from the MNR. We are seeking any additional information to further supplement their data.

We have begun some ecological field studies associated with the Stage 2, Site Investigation portion of the Natural Heritage Assessment so as to avoid missing any

significant timing windows. However, we are aware that some additional studies or more detailed investigations may need to be undertaken depending on the information that you provide.

Timing of Permitting

We have contacted the Ministry of the Environment's Renewable Energy Office regarding our discussion about permitting under the *Conservation Authorities Act*.

According to Maryanna Lewyckyj, Senior Project Advisor, Conservation Authority permits are outside of the Renewable Energy Approval process and are not required prior to submission of the REA application. If you have any questions you may contact Ms. Lewyckyj at (416) 212-7723. We anticipate that we will need to obtain permits from the ABCA but we are not sufficiently far along in the development of the project to submit an application to you at this time.

We anticipate that we will contact ABCA at a number of stages in the REA process and beyond as follows:

- Records Review request (current);
- Issuance of the draft Project Description Report (anticipated to be available early 2012);
- Issuance of draft application documents (anticipated for completion summer 2012); these include a minimum 90 day review period for municipalities and CA's under municipal agreements; and,
- Subsequent to REA approval, during the permitting process in order to obtain permits associated with access road and underground electrical cabling water crossings.

We also hope to meet with you in the new year to discuss the project, present the findings of our fieldwork to date and review any early concerns that you may have. We will contact you shortly to schedule a meeting time.

ABCA Review Fees

We understand that the ABCA will be billing renewable energy proponents to cover costs associated with:

- Compiling Records Review information;
- Reviewing REA application documents in accordance with any agreements you have with local municipalities; and,
- Reviewing and issue any necessary permits under the *Conservation Authorities Act*.

We also understand that you will bill proponents on a fee and expense basis and are unable to provide a cost estimate for your review at this time. We would appreciate being kept up-to-date on any decisions that the ABCA makes with respect to changes to your fee structure for the review of renewable energy projects and any cost estimates you may be able to provide.

Please address your invoice for review work to:

Lyle Parsons, BES
Project Manager
15 Townline
Orangeville, ON L9W 3R4

We hope that this provides you with the information you need to assist in your review of our renewable energy approval application. If you have any suggestions or requests to make your review easier, please do not hesitate to contact us.

Yours truly,

Neegan Burnside Ltd.



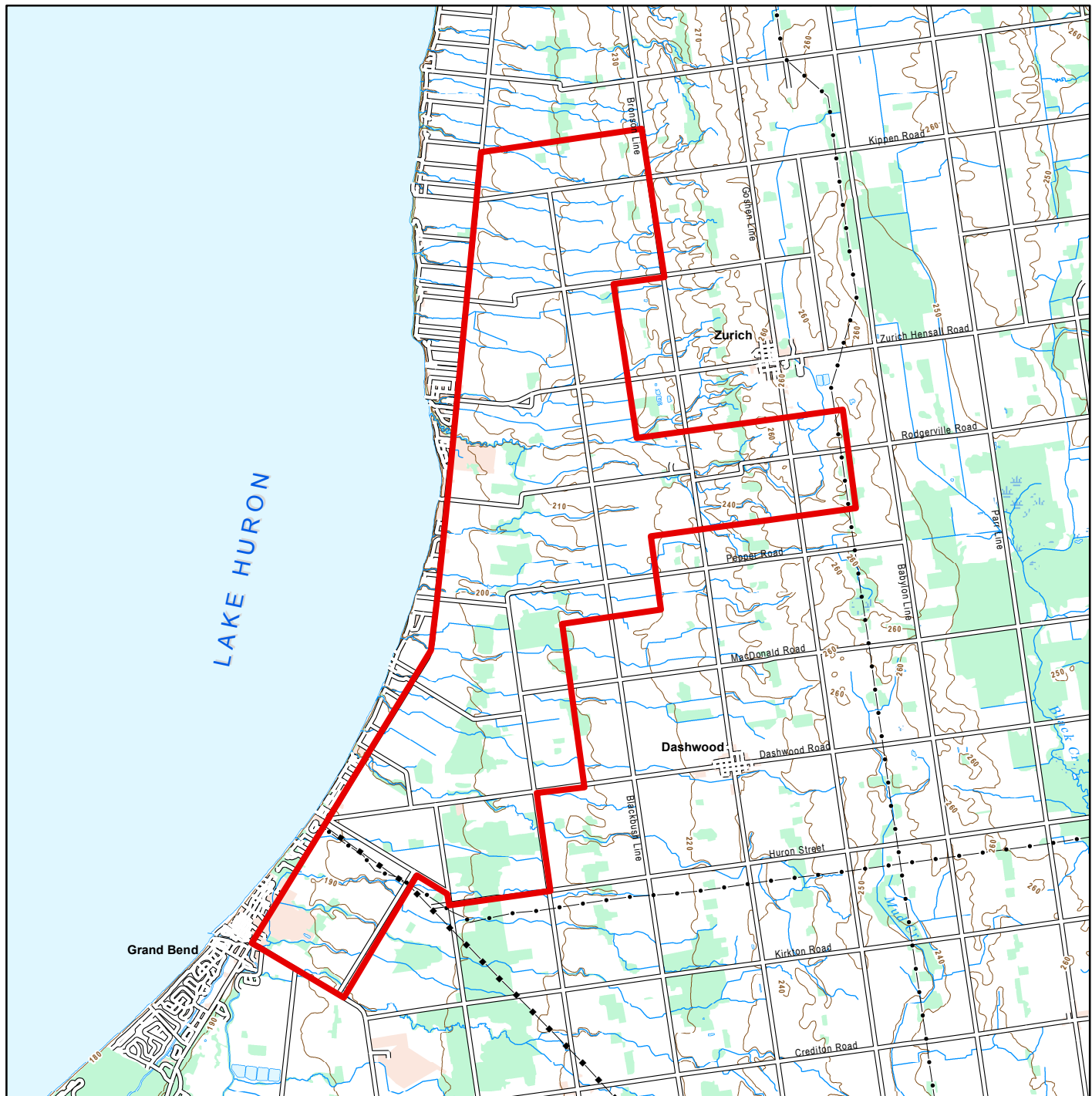
Tricia Radburn, M.Sc.(PI), MCIP, RPP
Environmental Planner

Cc Lyle Parsons, Neegan Burnside, Project Manager
Gordon Potts, Northland Power Inc.

Enc. Figure 1. Study Area
MNR Records Review
Shapefile of Study Area (by email only)

**FIGURE 1
NORTHLAND POWER INC.
GRAND BEND WIND FARM**

STUDY AREA EXTENT



LEGEND

- Study Area Boundary
- Power Transmission Line
- Petroleum Pipeline
- Railway
- Water Course**
 - Permanent
 - Intermittent
 - Contour (masl)
 - Waterbody: Permanent
 - Wetland
 - Wooded Area
 - Built-Up Area

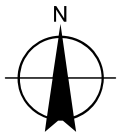
DATA SOURCES:

1. Ministry of Natural Resources, © Queen's Printer for Ontario
2. Natural Resources Canada © Her Majesty the Queen in Right of Canada

DISCLAIMER:

R.J. Burnside & Associates Limited and the above mentioned 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). The data represented on this map may be subject to updates and future reproductions may not be identical.



Scale: 1:120,000
October, 2011
Project Number: PIA019991

Projection: UTM Zone 17
Datum: NAD 83

Prepared By: Z. Nevar

Verified By: T. Radburn

NEEGAN BURNSIDE

REOT

District NHA Records Review Template for Renewable Energy Projects

Northland: Grand Bend Wind Farm

Wind, Solar, Biomass

Ministry of Natural Resources

Renewable Energy Operation Team

August 29, 2011

NHA Records Review

Project Name:	Grand Bend Wind Farm			
Project Location:	MNR District Guelph	Municipality Bluewater and South Huron	Geo.Twp, Lot(s) & Con(s) see map	
Applicant:	Grand Bend Wind LP (Northland Power) (contact: Gordon Potts Gordon.potts@northlandpower.ca)	Phone #: 647-288-1223 Address: 30 St.Clair Avenue West, 17 th Floor Toronto, ON M4V 3A1		
Consultant:	R.J. Burnside & Associates Limited (contact: Lyle Parsons lyle.parsons@rjburnside.com) Subcontracted Activa Environmental Inc for bird studies	Phone #: 519-925-1790 Address: 15 Townline Orangeville, ON L9W 3R4		
Generation type:	<input checked="" type="checkbox"/> wind onshore	<input type="checkbox"/> wind offshore	<input type="checkbox"/> solar	<input type="checkbox"/> biomass/biogas
Nameplate Capacity:	100 MW			
Name of MNR Records Reviewer:	Erin Harkins, Graham Buck, Chris Godwin, Terry Schwan, Donald Kirk			
Date Records Compiled:	August 16, 2011 and Revised August 26, 2011			
What Ecodistrict is the project located in?	6E-2, 7E-2			

Feature Type	Present within 120m of project location <small>(yes, no, unknown, N/A)</small>	Present within project location <small>(yes, no, unknown, N/A)</small>	MNR Comments <small>(comments may expand on information provided and/or may include relevant records within the vicinity that were not within project location or 120m of project area)</small>	Information Source <small>(NHIC, district staff, etc. Include the data layer name where possible)</small>
Provincial Park	No	No	Roughly 4km north of Pinery Provincial Park Indicate in Records Review report that this feature is not present. No need to do any additional work.	NRVIS – PP/CR layer
Conservation Reserve	No	No	Indicate in Records Review report that this feature is not present. No need to do any additional work.	NRVIS – PP/CR layer
Earth Science ANSI*	No	No	Roughly 5km west of Dashwood Regional ANSI Dashwood Area Moraine ANSI contains Late Wisconsinan, Port Huron Stadial, Wyoming Moraine, St. Joseph Till, meltwater channel and Lake Warren beach. This site is representative of the Wyoming Moraine in the Grand Bend-Parkhill area. The glacial features were deposited by the Huron ice lobe. [Earth Science Database, 1998] Roughly 1.5km west of St. Joseph Till Regional ANSI St. Joseph Till ANSI exhibits Late Wisconsinan, Port Huron Stadial, St. Joseph Till. Due to the temporary nature of exposures along Lake Huron, a Type Area rather than a Type Section was proposed. The St. Joseph Till forms the surface till on the Wyoming Kame Moraine. Both are Huron ice lobe deposits. [Earth Science Database, 1998] Indicate in Records Review report that this feature is not present. No need to do any additional work.	NRVIS – ANSI layer NHIC Biodiversity Explorer
Life Science ANSI	No	Yes (Regional Life Science ANSI)	Appears to be within 120m of Bayfield South Regional ANSI Series of upland woodlots running parallel to Lake Huron approximately 6 km south of Bayfield. Dissected by several concession roads. Woodlots vary from young sugar maple with ash to mature ash-beech with hemlock-sugar maple. One woodlot contains an actively used cabin. [Hanna 1984]	NRVIS – ANSI layer NHIC Biodiversity Explorer
Wetland	Unknown	Unknown	Datars-Miller Swamp (evaluation from 1987); approx. 7km from Hay Swamp PSW. Wetlands should be carried forward to site investigation to determine	

					presence/absence on the landscape.	
Woodland		Yes	Unknown		Woodlands range in size from small hedge rows to large woodlands up to 1 200ha in size. Need to carry woodlands forward to site investigation to confirm boundaries and presence/absence.	NRVIS – Wooded areas layer
Valleyland		Unknown	Unknown		Need to carry valleylands forward to site investigation to confirm presence/absence	
Significant Wildlife Habitat	Habitats of Seasonal Concentrations of Animals	Winter deer yards	No	No	Stratum 2 Wintering area 4km east of turbine locations (approximate Hay Swamp PSW). MNR is responsible for identifying significant winter deer yards. Indicate in records review that this feature is not present and do not carry forward to site investigation.	NRVIS – Wintering areas layer
		Colonial bird nesting sites	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Waterfowl stopover and staging areas	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Waterfowl nesting	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Shorebird migratory stopover areas	Unknown	Unknown	Within 5 km of a Great Lake shoreline (Lake Huron). Carry this feature forward to site investigation to determine if present/absent.	SWHTG
		Landbird migratory stopover areas	Does not apply to project location		Not within 5 km of Lake Erie/Ontario shoreline.	SWHTG/6E and 7E working draft Criteria schedules
		Raptor winter feeding and roosting areas	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Wild turkey winter range	Does not apply to project location		Wild turkey habitat does not need to be considered for this project location. Include this information in the records review report and do not carry forward to site investigation.	SWHTG/6E and 7E working draft Criteria schedules
		Turkey vulture summer roosting areas	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Reptile hibernacula	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	

		Bat hibernacula	Unknown	Unknown	Contact MNDMF for mapping of karst topography and records of old mines/caves. MNDMF has an online database of abandoned mines that can be searched at this link: http://www.geologyontario.mndmf.gov.on.ca/gosportal/gos Records within 1120m of the project location must be considered. Carry forward to site investigation to determine present/absent.	
		Bat maternity colonies	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Bullfrog concentration Areas	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Amphibian breeding habitat (woodland)	Unknown	Unknown	Check the Ontario Herpetofaunal Summary website (http://nhic.mnr.gov.on.ca/herps/ohs.html) or for species range maps and sighting locations. Carry this feature forward to site investigation to determine if present/absent.	
		Amphibian breeding habitat (wetland)	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Migratory butterfly stopover areas	Does not apply to project location		Not within 5 km of a Lake Erie/Ontario shoreline	SWHTG
	Rare Vegetation Communities	Alvars	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Tall-grass prairies	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Savannahs	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Rare forest types	Unknown	Unknown	1978 FRI maps may indicate rare forest types. Only required for turbines and infrastructure within 120m of woodland. Maps available only in Clinton MNR office. Check with Ausable Bayfield CA. Carry this feature forward to site investigation to determine if present/absent.	
		Talus slopes	Unknown	Unknown	Carry this feature forward to site	

					investigation to determine if present/absent.	
		Rock barrens	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Sand barrens	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Great Lake dunes	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
	Specialized Habitats for Wildlife	Habitat for Area Sensitive Species	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Forests providing high diversity of habitats	Unknown	Unknown	1978 FRI maps will indicate larger forest areas with different forest types. Only required for turbines and infrastructure within 120m of woodland. Maps available only in Clinton MNR office. Check with Ausable Bayfield CA. Carry this feature forward to site investigation to determine if present/absent.	
		Old-growth or mature forest stands	Unknown	Unknown	1978FRI maps will indicate older stands. Only required for turbines and infrastructure within 120m of woodland. Maps available only in Clinton MNR office. Check with Ausable Bayfield CA. Carry this feature forward to site investigation to determine if present/absent.	
		Foraging areas with abundant mast	Does not apply in project location		This feature only applies to Ecodistrict 6E-14 within Ecoregion 6E. This project is located in 6E-2. Include this information in Records Review Report and do not carry forward to site investigation.	MNR 6E Criteria Schedule
		Amphibian woodland breeding ponds	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Turtle nesting habitat	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Turtle over-wintering habitat	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	

		Woodland raptor nesting habitat	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Osprey nesting, foraging and perching habitat	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Moose calving areas	Does not apply in project location		Moose calving areas are not present within the vicinity of the project location. Include this information in Records Review Report and do not carry forward to site investigation.	
		Moose aquatic feeding areas	Does not apply in project location		Moose aquatic feeding areas are not present within the vicinity of the project location. Include this information in Records Review Report and do not carry forward to site investigation.	
		Mineral licks	Does not apply in project location		Mineral licks are not present within the vicinity of the project location. Include this information in Records Review Report and do not carry forward to site investigation.	
		Mink, otter, marten, and fisher denning sites	Does not apply in project location		Mink, otter, marten and fisher denning sites do not need to be considered within the vicinity of the project location. Include this information in Records Review Report and do not carry forward to site investigation.	6E Criteria Schedule
		Highly diverse areas	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Cliffs	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Seeps and springs	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
	Animal Movement Corridors (list all that apply)	Deer	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	
		Amphibians	Unknown	Unknown	Carry this feature forward to site investigation to determine if present/absent.	

Species of Conservation Concern (list all that apply)	Marsh Bird Breeding Habitat	Unknown	Unknown	Breeding bird information can be found on the Ontario breeding bird atlas website (http://www.birdsontario.org/atlas/index.jsp). Carry this feature forward to site investigation to determine if present/absent.	
	Area Sensitive Breeding Birds	Unknown	Unknown	Breeding bird information can be found on the Ontario breeding bird atlas website (http://www.birdsontario.org/atlas/index.jsp). Carry this feature forward to site investigation to determine if present/absent.	OBBA
	Open Country Breeding Bird Habitat	Unknown	Unknown	Breeding bird information can be found on the Ontario breeding bird atlas website (http://www.birdsontario.org/atlas/index.jsp).	OBBA
	Shrub/Early Successional Bird Breeding Habitat	Unknown	Unknown	Breeding bird information can be found on the Ontario breeding bird atlas website (http://www.birdsontario.org/atlas/index.jsp). Carry this feature forward to site investigation to determine if present/absent.	OBBA
	Terrestrial Crayfish	Unknown	Unknown	Chimney or Digger Crayfish (<i>Fallicambarus fodiens</i>) known to occur in area.	NHIC Biodiversity Explorer
	Special Concern Species			During site investigation the habitat requirements for each species listed under species of conservation concern should be determined present/absent. If the habitat is absent during site investigation no additional work required. If the habitat is present carry forward to Evaluation of Significance report.	
	Common Nighthawk (Special Concern)	Unknown	Unknown	Suspected to occur in the municipality (Lower Tier (LT)). Generally prefer open, vegetation-free habitats, including dunes, beaches, recently harvested forests, burnt-over areas, logged areas, rocky outcrops, rocky barrens, grasslands, pastures, peat bogs, marshes, lakeshores, and river banks. This species also inhabits mixed and coniferous forests. Can also be found in urban areas (nest on flat roof-tops) Also see species profile at: http://www.sararegistry.gc.ca/species/speciesDetails_e.cfm?sid=986	Guelph District SAR Bio and Ontario Breeding Bird Atlas – http://www.birdsontario.org/atlas/maps.jsp?lang=en
	Red-headed Woodpecker (Special Concern)	Unknown	Unknown	Known to occur in the municipality (LT). Generally prefer open oak and beech forests, grasslands, forest edges, orchards, pastures, riparian forests, roadsides, urban parks, golf courses, cemeteries, as well as along beaver ponds and brooks.	Guelph District SAR Bio and Ontario Breeding Bird Atlas – http://www.birdsontario.org/atlas/maps.jsp?lang=en

				Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=120&lang=en	rio.org/atlas/maps.jsp?lang=en	
		Short Eared Owl(Special Concern)	Unknown	Unknown	Known from Huron (historically) and could occur in area. Generally prefers a wide variety of large (<100 ha) open habitats, including grasslands, peat bogs, marshes, sand-sage concentrations, old pastures and hay fields. Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=119&lang=en	Guelph District SAR Bio and Ontario Breeding Bird Atlas – http://www.birdsontario.org/atlas/maps.jsp?lang=en
		Yellow Breasted Chat (Special Concern)	Unknown	Unknown	Generally prefer dense thickets around wood edges, riparian areas, and in overgrown clearings. Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=128&lang=en	Guelph District SAR Bio and Ontario Breeding Bird Atlas – http://www.birdsontario.org/atlas/maps.jsp?lang=en
		Bald Eagle (Special Concern)	Unknown	Unknown	Prefers deciduous and mixed-deciduous forest; and habitat close to water bodies such as lakes and rivers; They roost in super canopy trees such as Pine. Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=107&lang=en	Guelph District SAR Bio
		Monarch Butterfly (Special Concern)	Unknown	Unknown	Exist primarily wherever milkweed and wildflowers exist; abandoned farmland, along roadsides, and other open spaces. Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=149&lang=en	Guelph District SAR Bio
		West Virginia White (Special Concern)	Unknown	Unknown	Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=55	Guelph District SAR Bio
		Green Dragon (Special Concern)	Unknown	Unknown	Generally grows in damp deciduous forests and along streams. Flowering occurs in May and June Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=4&lang=en	Guelph District SAR Bio

		Hill's Pond Weed (Special Concern)	Unknown	Unknown	Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=16&lang=en	Guelph District SAR Bio
		Eastern Ribbonsnake (Special Concern)	Unknown	Unknown	Generally occurs along the edges of shallow ponds, streams, marshes, swamps, or bogs bordered by dense vegetation that provides cover. Abundant exposure to sunlight is also required, and adjacent upland areas may be used for nesting. Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=295&lang=en	Guelph District SAR Bio
		Milksnake (Special Concern)	Unknown	Unknown	Generally occur in rural areas, where it is most frequently reported in and around buildings, especially old structures. It is also found in a wide variety of habitats, from prairies, pastures, and hayfields, to rocky hillsides and a wide variety of forest types. They must also be in proximity of water, and suitable locations for basking and egg-laying. Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=291&lang=en	Guelph District SAR Bio
		Snapping Turtle (Special Concern)	Unknown	Unknown	Generally inhabit shallow waters where they can hide under the soft mud and leaf litter. Nesting sites usually occur on gravelly or sandy areas along streams. Snapping Turtles often take advantage of man-made structures for nest sites, including roads (especially gravel shoulders), dams and aggregate pits. Also see species profile at: http://www.sararegistry.gc.ca/species/speciesDetails_e.cfm?sid=1033	Guelph District SAR Bio
		Tuberous Indian-plantain (Special Concern)	Unknown	Unknown	Generally requires wet, calcium-rich meadows or shoreline fens. Also see species profile at: http://www.rom.on.ca/ontario/risk.php?doc_type=fact&id=23&lang=en	Guelph District SAR Bio, NHIC Biodiversity Explorer
S1-S3, SH Species and Communities						

		Tawny Emperor (S2S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Hairy Valerian (S1)	Unknown	Unknown		NHIC Biodiversity Explorer
		Hairy Wood Mint (S1)	Unknown	Unknown		NHIC Biodiversity Explorer
		Giant Ironweed (S1?)	Unknown	Unknown		NHIC Biodiversity Explorer
		Chinese Hemlock Parsley (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Crowned Beggarticks (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Eastern Green-violet (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Fogg's Goosefoot (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Pillose Evening Primrose (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Rattlesnake Hawkweed (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Slender Knotweed (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Stiff Gentian (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Woodland Pinedrops (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		False Tomentose Balsam Groundsel (S2S3)	Unknown	Unknown		NHIC Biodiversity Explorer

		American Gromwell (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Burning Bush (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Carolina Whitlow-grass (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Hairy Bedstraw (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Lizard's Tail (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Pawpaw (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Scarlet Beebalm (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Tuberous Indian-plantain (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Harbinger-of-spring (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Round-leaved Hawthorn (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Azure Bluet (S3)	Unknown	Unknown		NHIC Biodiversity Explorer
		Autumn Coral-root (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Large Round-leaved Orchid (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Slender Vulpia (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Slim-flowered	Unknown	Unknown		NHIC Biodiversity

		Muhly (S2)				Explorer
		Slim-spiked Three-awned Grass (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Yellow Ladies'-tresses (S2)	Unknown	Unknown		NHIC Biodiversity Explorer
		Barn Swallow	Unknown	Unknown	(Not listed Provincially, Listed as Threatened Federally)	NHIC Biodiversity Explorer
		Eastern Meadowlark	Unknown	Unknown	(Not listed Provincially, Listed as Threatened Federally)	NHIC Biodiversity Explorer

Is any portion of the project located within the Oak Ridges Moraine Plan Area? Yes No

If yes, are any of the following features known to be present on or within 120m of the project location?

- Sand Barrens
- Savannah
- Tallgrass Prairie
- Unknown

Is the project location within the Protected Countryside (Greenbelt)? Yes No

If yes, are any of the following features known to be present on or within 120m of the project location?

- Sand Barrens
- Savannah
- Tallgrass Prairie
- Alvar
- Unknown

* Earth Science ANSI only needs to be considered if it is located within 50m of the project location



AUSABLE BAYFIELD CONSERVATION AUTHORITY

R. R. # 3, 71108 Morrison Line, Exeter, Ontario N0M 1S5

(519) 235-2610 Fax (519) 235-1963

e-mail: info@abca.on.ca

www.abca.on.ca

*Our Member
Municipalities:*

Adelaide Metcalfe

Bluewater

Central Huron

Huron East

Lambton Shores

Lucan Biddulph

Middlesex Centre

North Middlesex

Perth South

South Huron

Warwick

West Perth

February 21, 2012

Tricia Radburn
Neegan Burnside Limited
292 Speedvale Ave. W,
Guelph, ON N1H 1C4

Atten.: Tricia Radburn

Dear Ms. Radburn

Re: Information Request for Northland Power Grand Bend Wind Farm

We have completed the information request for the Grand Bend Wind Farm and have this to offer:

- The Ausable Bayfield Conservation Authority (ABCA) fished the creek crossing Turnbull Rd (downstream of Schroeder Drain) in 2011. The watercourse is classified as a permanent cold/cool water watercourse. Species caught include White Sucker - *Catostomus commersoni*, Creek Chub - *Semotilus atromaculatus*, and Blacknose Dace - *Rhinichthys atratulus*
- My records indicate there are numerous records for the Bobolink - *Dolichonyx oryzivorus* which is considered Threatened by COSEWIC. Please contact the Ministry of Natural Resources for more information.
- The 1995 ABCA "Appendix to: Environmentally Significant Areas Watershed Plan Report #2 (1984)" indicates there are 5 ABCA Environmentally Significant Areas (ESA). Attached is the information associated with each of the 5 ESA's.
- ABCA natural heritage mapping has identified the Pergel Gully from approximately Lots 12 and 13, LRE Con, Hay to the outlet of Lake Huron at St. Joseph as a Significant Valleyland.

Member of



**Conservation
ONTARIO**
Natural Champions

An invoice for the amount of \$220 plus tax will be forwarded to Lyle Parsons as requested by your Dec 15, 2011 letter to Geoff Cade.



AUSABLE BAYFIELD CONSERVATION AUTHORITY

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*Our Member
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Adelaide Metcalfe

Blewater

Central Huron

Huron East

Lambton Shores

Lucan Biddulph

Middlesex Centre

North Middlesex

Perth South

South Huron

Warwick

West Perth

If you require any further information please do not hesitate to contact myself or Geoff Cade at this office.

Sincerely,

Tracey McPherson GISP
GIS/CAD Information System Specialist
Ausable Bayfield Conservation Authority

Cc. Geoff Cade, Supervisor of Water & Planning
Ausable Bayfield Conservation Authority

Member of



**Conservation
ONTARIO**
Natural Champions



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e-mail: info@abca.on.ca

www.abca.on.ca

February 22, 2012

Our Member
Municipalities:

Tricia Radburn
Neegan Burnside Limited
292 Speedvale Ave. W,
Guelph, ON N1H 1C4

Adelaide Metcalfe

Atten.: Tricia Radburn

Dear Ms. Radburn

Bluewater

Re: Updated Information Request for Northland Power Grand Bend Wind Farm

Central Huron

We have completed the information request for boundary received from Paul Stubbert on Feb. 22, 2012 of the Grand Bend Wind Farm and have this to offer:

Huron East

- A spreadsheet listing the ABCA fishing records including date fished, methods used, species names and numbers, and coordinates for the locations.

Lambton Shores

- My records indicate there are 2 species listed as Endangered by COSEWIC in your study area. They include a record for Blanding's Turtle - *Emydoidea blandingii*. in the vicinity of Rogerville Rd and Parr Line. Also the Ausable River from South of Dashwood Road to East of Airport Line is segment identified by the Department of Fisheries and Oceans as a known distribution segment for the Wavy-rayed Lampmussel - *Lampsilis fasciola*.

Lucan Biddulph

Middlesex Centre

North Middlesex

Perth South

- My records indicate there are numerous records for the Bobolink - *Dolichonyx oryzivorus* which is considered Threatened by COSEWIC and COSSASRO. As well there are records for Dwarf Hackberry - *Celtis tenuifolia*, also Threatened, in the vicinity of Highway 21 and Indian Rd in the Municipality of South Huron.

South Huron

Warwick

West Perth

- The 1995 ABCA "Appendix to: Environmentally Significant Areas Watershed Plan Report #2 (1984)" indicates there are 11 ABCA Environmentally Significant Areas (ESA) that your study area intersects. Attached is the information associated with each of the 11 ESA's. As well a shape file of their location and name will be provided.

- ABCA natural heritage mapping has identified the Pergel Gully from approximately Lots 12 and 13, LRE Con, Hay to the outlet of Lake Huron at St. Joseph as a Significant Valleyland. As well a section of the Ausable River has also be identified as a Significant Valleyland. A shape file of these areas are also being provided.

Member of



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AUSABLE BAYFIELD CONSERVATION AUTHORITY

R. R. # 3, 71108 Morrison Line, Exeter, Ontario N0M 1S5

(519) 235-2610 Fax (519) 235-1963

e-mail: info@abca.on.ca

www.abca.on.ca

- The ABCA Regulation limit will be provided in shape file format.

Our Member

Municipalities:

Adelaide Metcalfe

Bluewater

Central Huron

Huron East

Lambton Shores

Lucan Biddulph

Middlesex Centre

North Middlesex

Perth South

South Huron

Warwick

West Perth

An invoice for the amount of \$550 plus tax will be forwarded to Lyle Parsons as requested by your Dec 15, 2011 letter to Geoff Cade.

If you require any further information please do not hesitate to contact myself or Geoff Cade at this office.

Sincerely,

Tracey McPherson GISP
GIS/CAD Information System Specialist
Ausable Bayfield Conservation Authority

Cc. Geoff Cade, Supervisor of Water & Planning
Ausable Bayfield Conservation Authority

Member of



**Conservation
ONTARIO**
Natural Champions



February 7, 2012

Via: Email (Hard copy to follow)

Mr. Jeff Brick, MCIP, RPP
Coordinator, Hydrology and Regulatory Services
Upper Thames River Conservation Authority
1424 Clarke Road
London ON N5V 5B9

Dear Mr. Brick:

**Re: Grand Bend Wind Farm
Request for Information: Records Review
File No.: PIA 019991**

Northland Power Inc., on behalf of the Grand Bend Wind Limited Partnership has retained Neegan Burnside Ltd. ("Neegan Burnside") to prepare an application for a Renewable Energy Approval, under Ontario Regulation 359/09 of the *Environmental Protection Act* for a proposed 100 MW wind power project near Grand Bend, ON. The proposed project is categorized as a Class 4 Wind Facility and is located within the project study area presented in Figure 1, attached.

At this stage, Neegan Burnside is conducting a Records Review, as required as part of the Natural Heritage Assessment. The Records Review includes a review of existing data sources to confirm the potential presence of significant natural features.

Neegan Burnside is requesting that your agency/organization provide us with any data or records that you may have relating to the natural environment so that we can include these in our assessment of potential impacts.

Burnside is seeking information, including:

- Records of significant natural features, including species at risk, wildlife habitats, aquatic habitat, etc;
- Other background information that is pertinent to the compilation of an environmental inventory of the general area of study; and,
- Any preliminary comments or concerns that your agency has on the proposed project.

It is essential to the success of this project that the concerns of your agency, and other stakeholders, are identified early in the planning process, such that the appropriate environmental protection measures are incorporated into the overall project design. Your input and questions are encouraged.

To provide the study team with your comments or for further information please contact Tricia Radburn, Environmental Planner at 519-823-4995 x479 or by email at tradburn@neeganburnside.com.

Please note that only a small portion of the study area, associated with the transmission line falls within the Upper Thames River watershed. The majority of the project, including all turbines and access roads falls within Ausable Bayfield Conservation Authority ("ABCA") jurisdiction. We have been in contact with the ABCA and have a meeting scheduled with them on March 1, 2012 at 1 pm. If you have an interest in this project, we may be able to coordinate a joint meeting at this time. Alternatively, we can meet with you separately to discuss your specific concerns if you so wish.

Please indicate to us your interest in providing input to this project by responding to this letter. All interested stakeholders will be kept up-to-date on project status by means of future mailings, or inclusion in project meeting, as deemed appropriate.

Your participation in this Renewable Energy Approval process is much appreciated.

Yours truly,

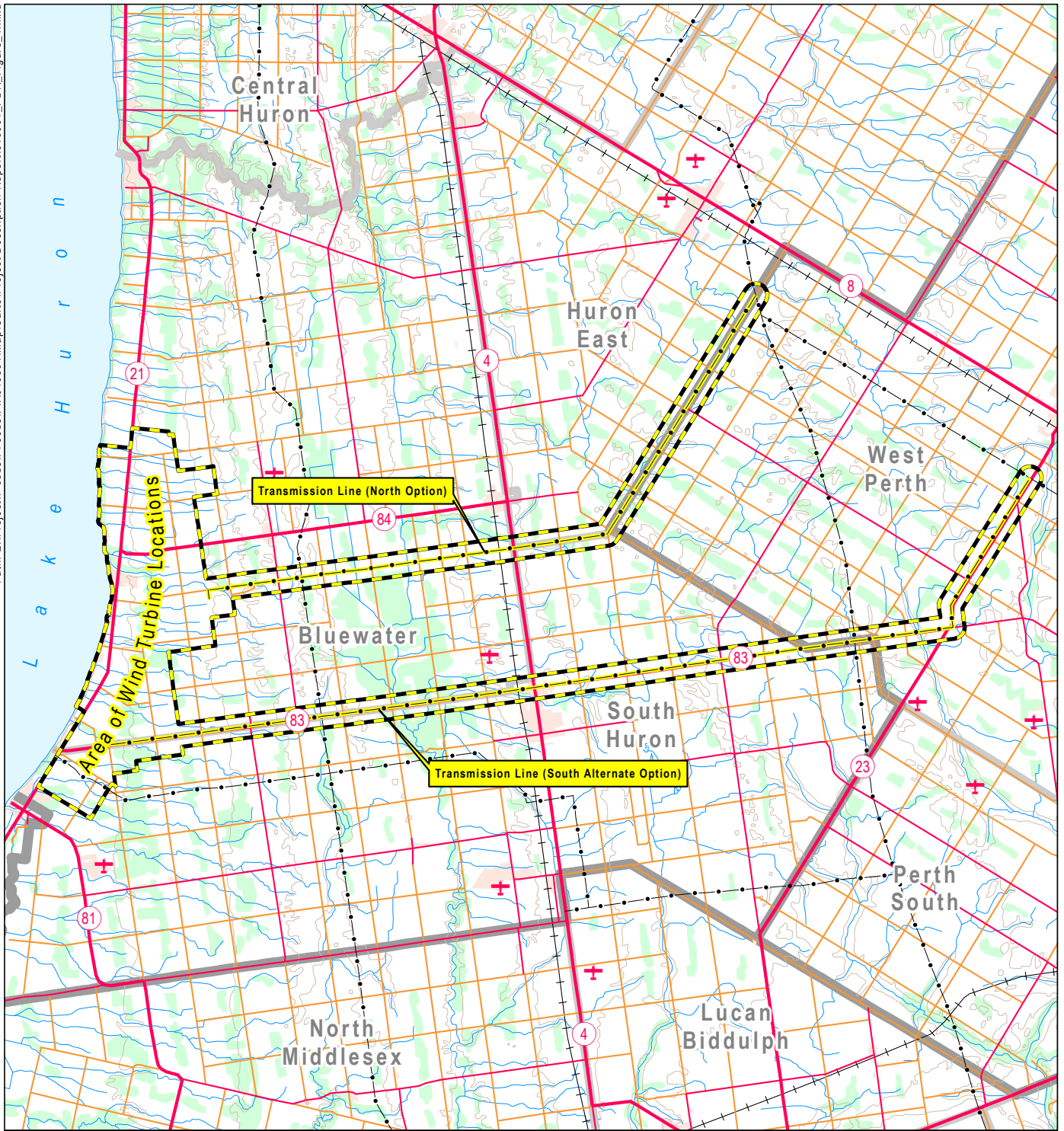
Neegan Burnside Ltd.






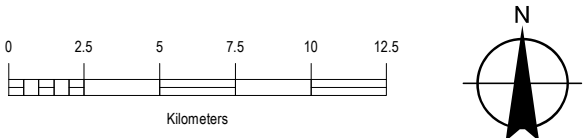
Tricia Radburn, M.Sc.(PI), MCIP, RPP
Environmental Planner

For:

Lyle Parsons, B.E.S.
Project Manager



-  Study Area Boundary
-  Potential Overhead Transmission Line From Transformer Station to Existing Line
-  Existing Transmission Line



Grand Bend Wind Farm
 Grand Bend Wind Limited Partnership
 c/o Nortland Power Inc.

Project Location

Prepared	P. Stubbert	Checked	L. Parsons	Figure Number 1
Scale	1:250,000	Project	PIA019991	

February 9, 2012

Neegan Burnside Limited
292 Speedvale Avenue West, Unit #20
Guelph, Ontario
N1H 1C4

Attention: Tricia Radburn – (via e-mail: Tricia.Radburn@rjburnside.com)

Dear Ms. Radburn:

**Re: Grand Bend Wind Farm
Request for Information: Records Review
Huron & Perth Counties**

Upper Thames River Conservation Authority (UTRCA) staff are in receipt of your letter (dated February 7, 2012) and "Request for Information" regarding the proposed Grand Bend Wind Farm. Please be advised that we have not yet received enough information to provide detailed comments regarding the project. However, we appreciate being contacted early in the process and are always open to meeting with you to discuss and work through any concerns or complications along the way.

According to the enclosed project location mapping, the "North Option" Transmission Line would fall outside the watershed (and hence jurisdiction) of the UTRCA. Further west of our watershed boundary, the larger portion of the project will fall under the jurisdiction of the Ausable Bayfield Conservation Authority (ABCA). We are of the understanding that ABCA staff have already been contacted by Neegan Burnside Ltd. regarding this project.

According to the enclosed project location mapping, portions of the "South Alternative Option" Transmission Line may traverse though natural hazard and natural heritage areas regulated by the UTRCA. Depending on project specifics, Section 28 permits may be required for those portions of the works. The UTRCA regulates development within the Regulation Limit in accordance with Ontario Regulation 157/06 made pursuant to Section 28 of the *Conservation Authorities Act*. This regulation requires proponents to obtain written approval from the UTRCA prior to undertaking any works in the regulated area including filling, grading, construction, alteration to a watercourse and/or interference with a wetland.

Our staff can provide digital mapping which outlines the boundaries of the natural heritage and natural hazard features present within the study area. Ideally, these natural heritage and natural hazard features should be identified in the Renewable Energy Approval Documents and avoided as inappropriate places for development. Our natural heritage and natural hazard features digital

mapping may be obtained by contacting our GIS department (contact: Phil Simm, 519-451-2800 x 247). Generally the fee involved with obtaining digital mapping of our natural heritage and natural hazard features is \$100.

Our data further indicates the potential presence of federally and/or provincially protected flora and fauna species at risk within the project study area. Our data does not indicate any currently documented Areas of Natural or Scientific Interest (ANSIs) located within the study area. However, the Ontario Ministry of Natural Resources would be the agency responsible for ANSI data and the one to contact directly regarding ANSIs, significant wetlands and provincial species at risk.

We are also providing Drinking Water Source Protection information for all projects occurring in areas identified as vulnerable. To that end, please review the attached Drinking Water Source Protection information (Appendix A).

We would appreciate receiving information and reports as they become available in order to ensure that we can meet the project deadlines with our comments.

If you have any questions, please do not hesitate to contact the undersigned.

Yours truly,

UPPER THAMES RIVER CONSERVATION AUTHORITY



Karen M. Winfield

Land Use Regulations Officer

- Encl. - Appendix A (Drinking Water Source Protection Information applicable to the Grand Bend Wind Farm Project, Huron & Perth Counties)
- UTRCA Regulation Limit mapping for the Grand Bend Wind Farm Project – Map 1 of 4 – Outlining Natural Hazard Features
 - UTRCA Regulation Limit mapping for the Grand Bend Wind Farm Project – Map 2 of 4 – Outlining Natural Heritage Features
 - UTRCA Regulation Limit mapping for the Grand Bend Wind Farm Project – Map 3 of 4 – Outlining Drinking Water Source Protection Features – Highly Vulnerable Aquifers
 - UTRCA Regulation Limit mapping for the Grand Bend Wind Farm Project – Map 4 of 4 – Outlining Drinking Water Source Protection Features – Significant Groundwater Recharge Areas

(Please note: maps should be printed landscape on legal size (8 ½ x 14 inch) paper for scales to be accurate).

- c.c. – Geoff Cade, ABCA – (via e-mail: gcade@abca.on.ca)
Andrew Bicknell, ABCA – (via e-mail: abicknell@abca.on.ca)

Appendix A – Drinking Water Source Protection Information applicable to the Grand Bend Wind Farm Project, Huron & Perth Counties

DRINKING WATER SOURCE PROTECTION

The *Clean Water Act* (CWA), 2006 is intended to protect existing and future sources of drinking water. The Act is part of the Ontario government's commitment to implement the recommendations of the Walkerton Inquiry as well as protecting and enhancing human health and the environment. The CWA sets out a framework for source protection planning on a watershed basis with Source Protection Areas established based on the watershed boundaries of Ontario's 36 Conservation Authorities. The Upper Thames River, Lower Thames Valley and St. Clair Region Conservation Authorities have entered into a partnership for The Thames-Sydenham Source Protection Region. Drinking Water Source Protection represents the first barrier for protecting drinking water including surface and ground water from becoming contaminated or overused thereby ensuring a sufficient, clean, safe supply now and for the future.

Assessment Reports:

The Thames-Sydenham Source Protection Region has prepared *Assessment Reports* which contain detailed scientific information that:

- identifies vulnerable areas associated with drinking water systems;
- assesses the level of vulnerability in these areas; and
- identifies activities within those vulnerable areas which pose threats to the drinking water systems, and assess the risk due to those threats.

The Assessment Report for the Upper Thames watershed delineates three types of vulnerable areas: Wellhead Protection Areas, Highly Vulnerable Aquifers and Significant Groundwater Recharge Areas. We wish to advise that the subject property contains areas identified as being a Highly Vulnerable Aquifer and Significant Groundwater Recharge Area.

Mapping which shows these areas is available at:

Highly Vulnerable Aquifers:

http://www.sourcewaterprotection.on.ca/downloads/assessment_reports/UTRCA/Appendices/A1-Maps/Map4-3-2_Highly%20Vulnerable%20Aquifers.pdf

Significant Groundwater Recharge Areas

http://www.sourcewaterprotection.on.ca/downloads/assessment_reports/UTRCA/Appendices/A1-Maps/Map4-2-2%20SGRA%20Vulnerability.pdf

Source Protection Plans:

Using the information in the *Assessment Report*, a *Source Protection Plan* is being developed for the Upper Thames watershed. It is anticipated that this *Plan* will consist of a range of policies that together, will reduce the risks posed by the identified water quality and quantity threats in the vulnerable areas. These policies will include a range of voluntary and regulated approaches to manage or prohibit activities which pose a threat to drinking water. Activities that can lead to; low, medium and significant threats have been identified in Appendix 10 of the *Upper Thames River Source Protection Area Assessment Report*, dated September 2010. Available at:

http://www.sourcewaterprotection.on.ca/downloads/assessment_reports/UTRCA/Appendices/A10-Threats%20and%20Risk%20Assessment.pdf

AREA OF VULNERABILITY	VULNERABILITY SCORE	THREATS CIRCUMSTANCES &
Highly Vulnerable Aquifer (HVA)	6	Moderate and Low threats
Significant Groundwater Recharge Area (SGRA)	2, 4 & 6	Moderate & Low threats
Wellhead Protection Area (WHPA)	n/a	n/a

NOTE: Certain Activities within the study area may be considered *Moderate or Low* threats to drinking water.

As indicated, the *Source Protection Plan* is currently being developed and as such, the UTRCA cannot speculate what the *Plan* might dictate for such areas. Under the CWA, the Source Protection Committee has the authority to include policies in the *Source Protection Plan* that may prohibit or restrict activities identified as posing a *significant threat* to municipal drinking water supplies. Municipalities may also have or be developing policies that apply to vulnerable areas when reviewing development applications. Proponents considering land use changes, site alteration or construction in these areas need to be aware of this possibility.



information request for wind farm
Tricia Radburn to: marc.leroux

12/16/2011 02:06 PM

Mr. Leroux,

I am following up on a letter we sent on October 24, 2011. We are preparing an application for a wind farm near Grand Bend. When we met with the MNR we were told that we must contact MNDMF for information related to geology and any records of caves or karst (which could house bats) in our study area.

I have attached a pdf and shapefile showing our study area to assist you in providing this information. We would prefer if you could respond with information in a shapefile if possible. Otherwise, a hard copy would be fine.

If you are not the correct contact could you please forward this request to the appropriate person?

Thanks so much,

NEEGAN BURNSIDE

Tricia Radburn, M.Sc.(PI), MCIP, RPP
Environmental Planner

Neegan Burnside Ltd.
292 Speedvale Ave. W, Guelph, ON N1H 1C4
tricia.radburn@neeganburnside.com
tel: (519) 823-4995 ext. 479
fax: (519) 836-5477
www.neeganburnside.com



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019991_NORTHLAND_STUDY_AREA.shp



information request for wind farm
Tricia Radburn to: marc.leroux

12/16/2011 02:06 PM

From: Tricia Radburn/RJB
To: marc.leroux@ontario.ca

Mr. Leroux,

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Thanks so much,

NEEGAN BURNSIDE

Tricia Radburn, M.Sc.(PI), MCIP, RPP
Environmental Planner

Neegan Burnside Ltd.
292 Speedvale Ave. W, Guelph, ON N1H 1C4
tricia.radburn@neeganburnside.com
tel: (519) 823-4995 ext. 479
fax: (519) 836-5477
www.neeganburnside.com



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Ministry of
Northern Development and Mines

Mineral Development and Lands Branch

933 Ramsey Lake Road, B6
Sudbury ON P3E 6B5
Tel.: (705) 670-5918
Fax: (705) 670-5803
Toll Free: 1-888-415-9845, Ext 5918

Ministère du
Développement du Nord et des Mines

Direction de l'exploitation des minéraux et de
la gestion des terrains miniers

933, chemin du lac Ramsey, étage B6
Sudbury ON P3E 6B5
Tél.: (705) 670-5918
Télééc.: (705) 670-5803
Sans frais : 1-888-415-9845, poste 5918



RECEIVED
JAN 03 2012

December 22, 2011

R.J. BURNSIDE & ASSOCIATES
LIMITED

Lyle Parsons
Project Manager
Neegan Burnside Ltd.
20-292 Speedvale Av W
Guelph ON N1H 1C4

Re: Northland Power Grand Bend Wind Farm, File No. PIA 019991

Dear Mr. Parsons,

Thank you for the opportunity to comment on the proposed wind farm project. I apologize for the delay in responding to you.

The Ministry of Northern Development and Mines' (MNDM) interest in this project stems from our mandate: to make Northern Ontario strong, healthy and prosperous by providing northerners with access to government programs and services; and by working across the Province to generate new wealth and benefits by supporting Ontario's mineral exploration, mining and geosciences sectors. Specific details on the responsibilities of MNDM can be found on the Ministry's website at <http://www.mndm.gov.on.ca/>.

MNDM has two divisions. I am including the responses of the Mines and Minerals Division. The Northern Development Division had no comments to make at this time.

MINES AND MINERALS DIVISION / MINE HAZARDS

There are no mine hazards within a 5 kilometre radius of the project site.

MINES AND MINERALS DIVISION / MINING LANDS

The proposed project site is subject to 35.1 (2) of the *Mining Act* and, as such, these lands are not open for mining claim staking. For land status within these townships, please contact the appropriate Land Registry Office.

MINES AND MINERALS DIVISION / RESIDENT GEOLOGIST PROGRAM

The Resident Geologist Program (RGP) of the Ontario Geologist Survey has done the following with regard to the above Request for Information:

1. Checked the Ministry's Mineral Deposit Inventory (MDI) for mineral occurrences: there are no known mineral occurrences within the proposed project area.
2. Checked the Ministry's Assessment File Report Inventory (AFRI) database to determine whether past mineral exploration activity has been reported for the area: there are no Assessment File Reports.
3. Used the GIS-based "Metallic Mineral Potential Estimation Tool" to get an estimation of the mineral potential of the proposed project area: low metallic mineral potential is estimated for this area (maximum value of 16.2).
4. Checked Bedrock Geology of Ontario (Miscellaneous Release – Data 126-Rev 1), Karst of Southern Ontario and Manitoulin Island (Groundwater Resources Study 5) and Surficial Geology of Southern Ontario (Miscellaneous Release – Data 128) for natural hazards, for example, karst topography, Leda clays: This area has inferred karst. Inferred karst areas represent those regions of predominantly carbonate rock where direct observations could not be made due to overburden cover or logistical challenges, but which possess rock units that are most susceptible to karstification processes and should display karst features. On Kippen Road, approximately 8km east of the proposed project area, is an area of known karst, as determined by OGS staff and/or from published reports. The karst features include sinkholes. There are no known Leda clays.

Published reports and Mineral Deposit Inventory and Abandoned Mines records are available for viewing or free download through the Geology Ontario portal using the following link: <http://www.geologyontario.mndm.gov.on.ca/>.

Thank you once again for the opportunity to comment. If you have any questions about MNDM's response, please feel free to contact me.

Sincerely,



Jenn Lillie-Paetz
Environmental Assessment Coordinator
Mineral Development and Lands Branch
Mines and Minerals Division



information request for wind farm
Tricia Radburn to: john.fischer

12/19/2011 09:15 AM

John,

Thank you for getting back to me regarding our information request with respect to a proposed wind farm near Grand Bend. As part of the Renewable Energy Approval process we must contact various agencies to identify any records of significant natural features, wildlife or habitats that could be of relevance to the proposed development.

I am therefore writing to request any such information from CWS. I have attached a pdf and shapefile showing our study area to assist you in providing this information. We would prefer if you could respond with information in a shapefile if possible. Otherwise, a hard copy would be fine.

Thanks so much,

NEEGANBURNSIDE

Tricia Radburn, M.Sc.(PI), MCIP, RPP
Environmental Planner

Neegan Burnside Ltd.
292 Speedvale Ave. W, Guelph, ON N1H 1C4
tricia.radburn@neeganburnside.com
tel: (519) 823-4995 ext. 479
fax: (519) 836-5477
www.neeganburnside.com



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019991_NORTHLAND_STUDY_AREA.sbx



019991_NORTHLAND_STUDY_AREA.shp



RE: information request for wind farm
 Fischer,John [Burlington]
 to:
 Tricia Radburn
 01/03/2012 01:12 PM
 Cc:
 "Rezek,Elizabeth [Ontario]"
 Show Details

1 Attachment



ATT3267599.gif

Hello Tricia,

This note is in response to your request below for information from CWS in relation to natural features and wildlife species in the study area of the proposed Grand Bend Wind Farm, located near Grand Bend. We understand that your request is based on a direction within Ontario's Renewable Energy Approvals (REA) process (Ontario Regulation 359/09) for proponents to consult with federal agencies including Environment Canada (EC) with respect to records relating to natural features and water bodies.

EC's Canadian Wildlife Service does not collect and maintain a comprehensive listing of publicly available records that relate to wildlife, natural features, or water bodies on private lands in Ontario, however, the Ontario Ministry of Natural Resources' (OMNR) Natural Heritage Information Centre (NHIC) is recognized as the authoritative source of data on wildlife species and species at risk (SAR) in Ontario. Therefore, we suggest you consult the NHIC (<http://nhic.mnr.gov.on.ca/>) for information on SAR which may be in the project area, as well as the local OMNR district office closest to the project area, for site-specific information on natural features and more common wildlife species.

The Ontario Breeding Bird Atlas is also a good source of information on bird species potentially breeding in your project area: <http://www.birdsontario.org/atlas/index.jsp>. The Species at Risk Public Registry (<http://www.sararegistry.gc.ca>) may also be useful to consult as it provides an updated list of Schedule 1 SAR listed under the federal *Species at Risk Act*, including profiles describing their habitat preferences and ranges. The registry also contains recovery strategies or action plans for these species which may identify critical habitat; this being the habitat that is necessary for the survival or recovery of a listed wildlife species.

Over time, critical habitat will be identified for all federally-listed endangered or threatened species, so it will be important to be aware of SAR occurrences and their habitats, especially critical habitat identified in proposed or final recovery documents, when planning wind energy projects. To date, critical habitat has been formally identified by EC in final federal recovery documents for Prothonotary Warbler, Spoon-leaved Moss, Horsetail Spikerush, Wood Poppy, Bashful Bulrush, Cucumber Tree, Hoary Mountain Mint and Small-whorled Pogonia. Critical habitat has been proposed for Piping Plover, Loggerhead Shrike (*migrans* subspecies), Acadian Flycatcher, Hooded Warbler, Boreal Woodland Caribou, Heart-leaved Plantain, Bluehearts, and Eastern Prairie Fringed-Orchid, and it will be formally identified for Blunt-lobed Woodsia in the near future. Critical habitat for additional SAR occurring in Ontario will also be identified in the near future. In addition, the Department of Fisheries and Oceans as well as the Parks Canada Agency have identified critical habitat in final and proposed federal recovery documents for aquatic SAR on all lands, and SAR on lands protected by Parks Canada, respectively. Additional information on SAR for which critical habitat has been identified can be found on the Species at Risk Public Registry (as above).

If requested by the OMNR or the Ontario Ministry of the Environment, EC may provide advice to the provincial agencies on its mandated areas of responsibility (e.g., migratory birds, species at risk, and water quality) as part of the agencies' regulatory review of wind energy projects. To date, EC has provided input to the OMNR on various provincial guidance documents related to the Renewable Energy Approval process requirements including: Bird and Bird Habitat Guidelines for Wind Power Projects, Bat and Bat Habitat Guidelines for Wind Power Projects, the Natural Heritage Assessment Guide for Renewable Energy Projects, and the Significant Wildlife Habitat Technical Guide.

Thank you for your inquiry.

John

John Fischer

Environmental Assessment Coordinator | Coordonnateur des evaluations environnementales
Canadian Wildlife Service | Service canadien de la faune
Environment Canada | Environnement Canada
867 Lakeshore Road | 867, rue Lakeshore
Burlington (Ontario) L7R 4A6 john.fischer@ec.gc.ca
Telephone | Telephone 905-336-4961
Facsimile | Telecopieur 905-336-4906 Government of Canada | Gouvernement du Canada

From: Tricia Radburn [<mailto:Tricia.Radburn@rjburnside.com>]
Sent: Monday, December 19, 2011 9:15 AM
To: Fischer,John [Burlington]
Subject: information request for wind farm

John,

Thank you for getting back to me regarding our information request with respect to a proposed wind farm near Grand Bend. As part of the Renewable Energy Approval process we must contact various agencies to identify any records of significant natural features, wildlife or habitats that could be of relevance to the proposed development.

I am therefore writing to request any such information from CWS. I have attached a pdf and shapefile showing our study area to assist you in providing this information. We would prefer if you could respond with information in a shapefile if possible. Otherwise, a hard copy would be fine.

Thanks so much,

NEEGAN BURNSIDE

Tricia Radburn, M.Sc.(PI), MCIP, RPP
Environmental Planner

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292 Speedvale Ave. W, Guelph, ON N1H 1C4
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Thank you.



Rusty-patched bumble bee and proximity to wind farm
Tricia Radburn to: xeromelissa

12/16/2011 01:43 PM

Dr. Packer,

Neegan Burnside is preparing an application for approval of a wind farm just north of Grand Bend. We have consulted with the MNR and we understand that there are records of the rusty-patched bumble bee (*Bombus affinus*) in the Pinery Provincial Park to the south of our Study Area.

I am writing to inquire about whether you may have additional records of the species in our Study Area, shown on the attached figure, or if you have any reason to suspect that they may be present in the area. I'm also wondering, aside from actual habitat loss due to construction, if you are aware of any impacts that a large scale wind farm could have on bumble bees?

Any information you could provide would be appreciated.

Kind Regards,

NEEGANBURNSIDE

Tricia Radburn, M.Sc.(PI), MCIP, RPP
Environmental Planner

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292 Speedvale Ave. W, Guelph, ON N1H 1C4
tricia.radburn@neeganburnside.com
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www.neeganburnside.com



copy019991_LETTER_TOPO.pdf



RE: Rusty-patched bumble bee and proximity to wind farm
Sheila Colla
to:
tricia.radburn
12/16/2011 02:27 PM
Show Details

1 Attachment



ATT00001

Hi,

The MNR has all of our records of this species (*Bombus affinis*). The specimens were detected in 2005 and 2009 at the Pinery. Before that the last detection was 2000 near lake Erie. Only the park has been surveyed in that region so it may be worth doing a few days of field work to look for the species on the potential site. There hasn't been any work done on the impacts of wind farms on bees, as far as I know. Let me know if you have any further questions.

Cheers,

Sheila R. Colla
Ph.D. Candidate, Biology Dept. York University
IUCN SSC Bumblebee Specialist Group, North American Co-Coordinator
Society for Conservation Biology, Toronto Chapter Vice-President
Website: www.savethebumblebees.com

Date: Fri, 16 Dec 2011 14:13:19 -0500
From: xeromelissa@mail.com
Subject: Fw: Rusty-patched bumble bee and proximity to wind farm
To: sheila_123@hotmail.com

Hi

I'll delegate this one to you,

cheers

laurence

----- Original Message -----

From: Tricia Radburn
Sent: 12/16/11 01:43 PM
To: xeromelissa@mail.com
Subject: Rusty-patched bumble bee and proximity to wind farm

Dr. Packer,

Neegan Burnside is preparing an application for approval of a wind farm just north of Grand Bend. We have consulted with the MNR and we understand that there are records of the rusty-patched bumble bee (*Bombus affinus*) in the Pinery Provincial Park to the south of our Study Area.

I am writing to inquire about whether you may have additional records of the species in our Study Area, shown on the attached figure, or if you have any reason to suspect that they may be present in the area. I'm also wondering, aside from actual habitat loss due to construction, if you are aware of any impacts that a large scale wind farm could have on bumble bees?

Any information you could provide would be appreciated.

Kind Regards,

NEEGAN BURNSIDE

Tricia Radburn, M.Sc.(PI), MCIP, RPP
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Thank you.

Appendix C
Records Review Summary

Appendix C

Table C-1 Records Review Summary

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
PROVINCIAL PARKS						
PP-01	Provincial Park	NRVIS	Pinery Provincial Park	Over 4.9 km from the Project Location	No	More than 120 m from the Project Location
WETLANDS						
WE-01	Wetland	NRVIS	Unevaluated	Within 120 m of the Project Location	Yes	
WE-02	Wetland	NRVIS	Unevaluated	Within 120 m of the Project Location	Yes	
WE-03	Wetland	NRVIS	Evaluated- Not Provincially Significant Part of Datars-Miller Swamp	Within 120m of the Project Location	No	Previously evaluated as non-PSW
WE-04	Wetland	NRVIS	Evaluated- Not Provincially Significant Part of Datars-Miller Swamp	Within 120 m of the Project Location	No	
WE-05	Wetland	NRVIS	Unevaluated	Within 120m of the Project Location	Yes	
WE-06	Wetland	NRVIS	Unevaluated	Over 135 m from the Project Location	No	More than 120 m from the Project Location
WE-07	Wetland	NRVIS	Evaluated- Not Provincially Significant. Part of Keller Swamp	Over 1.6 km from the Project Location	No	Previously evaluated as non-PSW; more than 120m from the Project Location
WE-08	Wetland	NRVIS	Evaluated- Not Provincially	Over 1.7 km from the Project Location	No	Previously evaluated as

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
			Significant. Part of Keller Swamp			non-PSW; more than 120m from the Project Location
WE-09	Wetland	NRVIS	Unevaluated	Within 120 m of the Project Location	Yes	
WE-10	Wetland	NRVIS	Evaluated-Provincially Significant. Part of Hay Swamp Wetland Complex	Within 120 m of the Project Location	Yes	
WE-11	Wetland	NRVIS	Evaluated-Provincially Significant. Part of Hay Swamp Wetland Complex	Within 120 m of the Project Location	Yes	
WE-12	Wetland	NRVIS	Evaluated-Provincially Significant. Part of Hay Swamp Wetland Complex	Within 120m of the Project Location	Yes	
WE-13	Wetland	NRVIS	Evaluated-Provincially Significant. Part of Hay Swamp Wetland Complex	Within 120m of the Project Location	Yes	
WE-14	Wetland	NRVIS	Evaluated-Provincially Significant. Part of Hay Swamp Wetland Complex	Within 120 m of the Project Location	Yes	

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
WE-15	Wetland	NRVIS	Evaluated-Provincially Significant. Part of Hay Swamp Wetland Complex	Within 120m of the Project Location	Yes	
WE-16	Wetland	NRVIS	Evaluated-Provincially Significant. Part of Hay Swamp Wetland Complex	Within 120m of the Project Location	Yes	
AREAS OF NATURAL AND SCIENTIFIC INTEREST						
ANSI-01	ANSI (Earth Science)	NRVIS	Not Provincially Significant. St. Joseph Till Earth Science ANSI	Over 1.2 km from the Project Location	No	Previously evaluated as non-provincially significant; more than 50 m from the Project Location
ANSI-02	ANSI (Earth Science)	NRVIS	Not Provincially Significant. Dashwood Regional Earth Science ANSI	Over 260m from the Project Location	No	Previously evaluated as non-provincially significant; more than 50m from the Project Location
ANSI-03	ANSI (Life Science)	NRVIS	Not Provincially Significant. Bayfield South Regional Life Science ANSI	Over 260m from the Project Location	No	Previously evaluated as non-provincially significant; more than 120m from the Project Location

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
ANSI-04	ANSI (Life Science)	NRVIS	Not Provincially Significant. Khiva Conservation Forest Regional Life Science ANSI	Over 3.1km from the Project Location	No	Previously evaluated as non-provincially significant; more than 120m from the Project Location
ANSI-05	ANSI (Life Science)	NRVIS	Not Provincially Significant. Hay Swamp Regional Life Science ANSI	Within 120m of the Project Location	No	Previously evaluated as non-provincially significant.
ANSI-06	ANSI (Earth Science)	NRVIS	Not Provincially Significant. Chiselhurst Sinkhole Regional Earth Science ANSI	Over 1.1km from the Project Location	No	Previously evaluated as non-provincially significant; more than 50m from the Project Location
ANSI-07	ANSI (Earth Science)	NRVIS	Not Provincially Significant. Ausable River Sinkhole Regional Earth Science ANSI	Over 3.8km from the Project Location	No	Previously evaluated as non-provincially significant; more than 50 m from the Project Location
ANSI-08	ANSI (Earth Science)	NRVIS	Provincially Significant. Staffa Kame Complex	Over 5.5 km from the Project Location	No	More than 50 m from the Project Location
ANSI-09	ANSI (Earth Science)	NRVIS	Provincially Significant. Staffa-Dublin Moraine ANSI	Over 4.4 km from the Project Location	No	More than 50 m from the Project Location

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
ANSI-10	ANSI (Earth Science)	NRVIS	Provincially Significant. North Thames River	Over 1.5 km from the Project Location	No	More than 50 m from the Project Location
ANSI-11	ANSI (Earth Science)	NRVIS	Provincially Significant. Fullarton Moraine	Over 1.0 km from the Project Location	No	More than 50 m from the Project Location
VALLEYLANDS						
V-01	Significant Valleyland	Ausable Bayfield Conservation Authority	Provincially Significant	Over 220 m from the Project Location	No	More than 120 m from the Project Location
V-02	Significant Valleyland	Ausable Bayfield Conservation Authority	Provincially Significant	Over 170m from the Project Location	No	More than 120m from the Project Location
WOODLANDS						
W-01	Woodland	SOLRIS	Unevaluated	Within 120 m of the Project Location	Yes	
W-02	Woodland	SOLRIS	Unevaluated	Within 120 m of the Project Location	Yes	
W-03	Woodland	SOLRIS	Unevaluated	Within 120 m of the Project Location	Yes	
W-04	Woodland	SOLRIS	Unevaluated	Within 120 m of the Project Location	Yes	
W-63	Woodland	SOLRIS	Unevaluated	Within 120m of the Project Location	Yes	
WILDLIFE HABITAT						
WDY-01	Wildlife Habitat (Winter Deer Yard)	NRVIS	Evaluated and Confirmed by MNR as Not Provincially Significant. Stratum 2 deer wintering habitat.	Within 120 m of the Project Location	No	Previously evaluated as non-provincially significant.

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
BH-01	Candidate Wildlife Habitat (Bat Hibernacula)	Digitized from MNDMF on-line mapping	Unevaluated-candidate only based on presence of karst and sinkholes.	Over 3.2 km from the Project Location	No	More than 120 m from the Project Location
BH-02	Candidate Wildlife Habitat (Bat Hibernacula)	Digitized from MNDMF on-line mapping	Unevaluated-candidate only based on presence of karst and sinkholes.	Within 120 m of the Project Location	Yes	
WFSS-01	Wildlife Habitat (Waterfowl Stopover and Staging Area)	Bird Studies Canada interactive mapping site	Theford Flats Important Bird Area	Over 9.5 km from the Project Location	No	More than 120m from the Project Location
SCC-01	Wildlife Habitat (Habitat for Species of Conservation Concern)	Bird Studies Canada interactive mapping site	Port Franks Wetlands & Forest Important Bird Area	Over 4.9 km from the Project Location	No	More than 120m from the Project Location
HASS-01	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	
HASS-02	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	
HASS-03	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
HASS-04	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	
HASS-05	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	
HASS-06	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120m of the Project Location	Yes	
HASS-07	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	
HASS-08	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	
HASS-09	Wildlife Habitat (Habitat for area-sensitive species)	Derived from SOLRIS woodlands layer	Unevaluated-Candidate only based on presence of interior forest habitat.	Within 120 m of the Project Location	Yes	
ADDITIONAL UNMAPPED FEATURES						
N/A	Colonial bird nesting sites	Assumed potentially present	Unevaluated	Unknown	Yes	

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
N/A	Waterfowl stopover and staging areas	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Waterfowl nesting	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Shorebird migratory stopover areas	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Landbird migratory stopover areas	Not present	Not provincially significant- not within 5km of Lake Erie/Ontario shoreline	Not present	No	Does not apply to project location.
N/A	Raptor winter feeding and roosting areas	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Wild turkey winter range	Not present	Not provincially significant- does not apply to project location	Not present	No	Does not apply to project location.
N/A	Turkey vulture summer roosting areas	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Reptile hibernacula	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Bat hibernacula	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Bat maternity colonies	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Bullfrog concentration areas	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Migratory butterfly stopover areas	Not present	Not provincially significant- not within 5km of Lake Erie/Ontario shoreline	Not present	No	Does not apply to project location.

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
N/A	Rare vegetation communities	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Forests providing a high diversity of habitats	MNR FRI mapping (1978)	Unconfirmed-historical data based on 1978 FRI mapping.	Location Unknown	Yes	
N/A	Old growth or mature forest stands	MNR FRI mapping (1978)	Unconfirmed-historical data based on 1978 FRI mapping.	Location Unknown	Yes	
N/A	Foraging area with abundant mast	MNR FRI mapping (1978)	Not provincially significant- Not within Ecodistrict 6E-14	Location Unknown	No	Does not apply to project location
N/A	Amphibian woodland and wetland breeding ponds	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Turtle and overwintering nesting habitat	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Woodland raptor nesting habitat	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Osprey nesting, foraging and perching habitat	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Moose calving areas	Not present	Does not apply to project location	Not present	No	Does not apply to project location
N/A	Moose aquatic feeding areas	Not present	Does not apply to project location	Not present	No	Does not apply to project location
N/A	Mineral licks	Not present	Does not apply to project location	Not present	No	Does not apply to project location

ID	Feature Type	Data/Information Used to ID Feature	Evaluation of Significance Status	Feature Location in Relation to Project Location (see Figures in Appendix A)	Carried Forward to Site Investigation (yes/no)	Rationale
N/A	Mink, otter, marten, and fisher denning sites	Not present	Does not apply to project location	Not present	No	Does not apply to project location
N/A	Highly diverse areas	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Cliffs	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Seeps and springs	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Deer corridors	Not present	Unevaluated	Unknown	No	Not present based on presence of non-provincially significant wintering habitat only.
N/A	Amphibian corridors	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Marsh bird breeding habitat	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Habitat for area sensitive breeding birds	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Open country breeding bird habitat	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Shrub/early successional breeding bird habitat	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Terrestrial crayfish	Assumed potentially present	Unevaluated	Unknown	Yes	
N/A	Habitats for Special Concern and rare species	Assumed potentially present	Unevaluated	Unknown	Yes	

