7.0 Mitigative Measures, Follow-up and Monitoring

The Proponent is committed to planning and executing the BWF in a sustainable manner – this includes fulfilling its environmental, social and economic responsibilities. The Proponent will honour the commitments made in this EA and will comply with all applicable laws and regulations.

To ensure these commitments are transferred to the contractors, employees and other site personnel, a draft EPP has been developed for the construction and operation phases of the Project (Appendix 3); this will be updated to address comments from regulators, other stakeholders and the public on this EA, as well as results of additional field work and final design. Watts Wind is committed to training contractors, employees and other site personnel on the requirements of the EPP in relation to their responsibilities. The main commitments for mitigative measures, follow up and monitoring include but are not limited to:

- Installation of sediment and erosion control measures prior to earth works and maintained during construction, and visual monitoring of receiving water as appropriate until site is stabilized;
- Implement the mitigation sequence of avoidance, minimization and compensation as per the
 Nova Scotia Wetland Conservation Policy (2011) to address the small wooded swamps identified
 on this site along proposed access road alignment, including additional field work and final
 design of the access road; where avoidance is not feasible, the Proponent will liaise with NSE
 and apply for requisite approvals, i.e., Wetland Alteration Approval, and ensure these are in
 place before any alteration occurs.
- Install culverts as required for access road to facilitate site drainage in low flow and intermittent streams flowing toward Murrays Cove between June and September in accordance with pertinent regulations with notification of NSE or approval application if required;
- Complete additional moose field work (i.e., pellet count) in consultation with DNR in spring 2013, and commitment to work with DNR to determine need and implement post-construction monitoring, if appropriate;
- Nesting bird survey to be completed prior to clearing in spring / summer 2013;
- Preparation of a plan for bird monitoring and bird and bat carcasses searches and implementation of the plan once approved by EC and CWS;
- Approaches to protecting species at risk and of concern identified or having potential to be on or near the Project site as identified in this EA and the EPP;
- Proper handling, storage and disposal of hazardous and non-hazardous wastes;

- Implementation of protocols should an unplanned event occur, such as discovery of suspected artifacts, structures of cultural significance or human remains, unplanned release of deleterious material;
- Continued consultation with the community, the Mi'kmaq and regulators to maintain information flow and open dialogue, especially with the nearby residents in Atwoods Brook to ensure that questions or concerns with respect the Project construction and operation are understood and addressed;
- Update of regulators and other stakeholders should a change in site plan occur and maintenance of all other commitments as laid out in this EA report and compliance with expected NSE Terms and Conditions of EA Approval; and
- If necessary, development of plans to monitor noise and / or shadow flicker to the satisfaction of NSE if requested by NSE should complaints occur and monitoring be an appropriate component of approach to complaint resolution.

As this is a locally owned and operated project organized as a CEDIF, community outreach is uniquely integrated into the Project. Beyond the consultation already completed and ongoing consultation, i.e., open houses and mail outs, a Project website and signage will be implemented and maintained as part of project construction and operation. This will facilitate communications and provide community members with contact information is questions or concerns arise. In addition, the Proponent will continue to review the interest from members of the community in forming a CLC to assist with community engagement.

8.0 Closure

The Barrington Wind Farm is a community-based project which will provide distributed renewable energy to the grid and local economic benefit with minimal impact to the environment. Upfront planning has minimized environmental effects while maximizing distance from residences while retaining excellent wind regime and moderate construction costs.

Typical construction mitigative measures will result in minimal adverse impact to the environment. Operational impacts are expected to be minimal and follow up and monitoring measures will occur as indicated. A draft EPP has been developed for construction and operation of the Project to ensure the appropriate mitigative measures, monitoring and follow up; this will be finalized prior to construction and submitted to NSE.

As outlined in this EA document, the Project can be executed without significant adverse effects on biophysical VECs and socio-economic aspects. The Proponent is committed to undertaking the Project to the mutual benefit of the investors, the community and the Province while eliminating or minimizing environment effects to the extent possible. This is achievable by adhering to the commitments as laid out in this document, including the EPP, and all pertinent legislation, as well as the future requirements of NSE's conditions of approval and other approvals and permits.

The contents of this Barrington Wind Farm Environmental Assessment document are the responsibility of the Proponent. They have been prepared in accordance with the *Environment Act* and its associated regulations.

Name of Proponent:	Watts Wind Energy Inc.
Date:	February-1-13
Signature:	Dels-
Name:	Paul Pynn
Title:	Vice President
Proponent Phone:	902-482-8687
Proponent email:	ppynn@wattswind.com
Proponent Address:	300 Prince Albert Road
	Dartmouth, NS, B2Y4J2

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Appendix 1: COMFIT APPROVAL



Energy Office of the Minister

Suite 400, 5151 George Street, PO Box 2664, Halifax, Nova Scotia, Canada B3J 3P7 • Telephone 902 424-7793 Fax 902 424-3265 • www.gov.ns.ca/energy

July 31, 2012

Paul Pynn Watts Wind Energy Inc. 300 Prince Albert Road Dartmouth, N.S. B2Y 4J2

Dear Watts Wind Energy Inc.:

Re: Community Feed-In Tariff Approval

On behalf of the Nova Scotia Department of Energy, I am pleased to present you with your Community Feed-In Tariff (COMFIT) approval for your 3.2 MW large-wind project in Barrington, NS (COMFIT application #277). Attached to this letter is a certificate indicating your approval.

In order to maintain your COMFIT approval, you must comply with the conditions set by Nova Scotia Power Incorporated, the Renewable Electricity Regulations made under Section 5 of the *Electricity Act* and all program Directives. You will also be expected to comply with the terms and conditions of the project as outlined in your COMFIT application submitted September 23, 2011. Any alterations to this submission (technology type, partnership structure etc.) must be submitted in writing and approved by the Department.

As a condition of approval, your project will be expected to complete:

- Community Consultation: Two public information sessions must be held prior to the construction of the project. Results of the information session must be submitted to the Department of Energy, outlining any community concerns with the proposed project.
- Project Time Line and Milestones: A detailed project schedule including timelines and key milestones must be submitted to the Department of Energy within 60 days. You will be required to report regularly on the progress of the project, as outlined in the submission.
- Evidence of Ownership: Please provide final details regarding the projects ownership structure and any partnership details and agreements relating to the project.
- An Environmental Assessment.

Wind Energy Mapping: The Department of Energy and Department of Natural Resources
are endeavoring to map wind development within the province. All approved projects are
required to submit the appropriate geographic information system data, and work
collaboratively to address any recommendations emerging from an assessment of the
cumulative impact of wind energy in the province. More information is provided in the
guidance note.

These conditions are not an exhaustive list of the permits and approvals needed for your project. COMFIT approval does not supersede any additional regulations, permits or approval required by other government authorities as your project unfolds. Projects must still comply with all other conditions and milestones as set by government entities and Nova Scotia Power Inc. Failure to meet additional requirements may result in revocation of your COMFIT approval, even though they may not be an explicit condition at this time.

A COMFIT guidance note is attached with information pertaining to the implementation of your project. The guidance note is not a condition of approval, but information that may be useful to you as you implement your project. As per Directive 004: Annual Progress reports, the Department looks forward to receiving your annual reports on how COMFIT proceeds have assisted in meeting community sustainability goals.

Please note that you are also required to submit a report to the Department of Energy within 30 days of your project's connection to the distribution grid as identified in Section 34 of the Renewable Electricity Regulations. Failure to do so may result in revocation of your COMFIT approval.

If you have any questions about your approval, or if we can be of further assistance to you, please call COMFIT Clerk at (902) 424-5293 and a representative will be happy to assist you.

Yours sincerely,

Charlie Parker Minister

Enclosure

Community Feed-In Tariff Approval

This certifies that the *Watts Wind Energy Inc.* has received Community Feed-In Tariff Approval by the Nova Scotia Department of Energy for a 3.2 MW large-wind project in Barrington, NS. Approval may be revoked should a project not meet the requirements of the Community Feed-In Tariff program or deviate from details specified in its Community Feed-In Tariff application.



1400 - 400 - 100 m

Charlie Parker

Minister

Nº. Project 277

July 31 2012

Community Feed-In Tariff Approval

This certifies that the *Watts Wind Energy Inc.* has received Community Feed-In Tariff Approval by the Nova Scotia Department of Energy for a 3.2 MW large-wind project in Barrington, NS. Approval may be revoked should a project not meet the requirements of the Community Feed-In Tariff program or deviate from details specified in its Community Feed-In Tariff application.



100 m - Jack

Charlie Parker

Minister

Appendix 2: FEDERAL APPROVALS



RE: MacLellans Brook Wind Farm + Barrington Wind Farm

XNCR, Windfarm Coordinator < Windfarm.Coordinator@dfo-mpo.gc.ca> To: Andrew Arbuckle aarbuckle@eonwind.com>

Fri, Dec 7, 2012 at 3:20 PM

Hello,

Here is my assessment of possible interference issues for the 2 proposed areas:

MacLellans Brook:

There is no CCG communication or radar site in the vicinity of the proposed wind farm. Therefore, no interference issues are anticipated.

Barrington:

There is no CCG communication or radar site in the vicinity of the proposed wind farm. Therefore, no interference issues are anticipated.

Regards,

Martin Grégoire, P. Eng Canadian Coast Guard

From: Andrew Arbuckle [mailto:aarbuckle@eonwind.com]

Sent: December 4, 2012 9:43 AM **To:** XNCR, Windfarm Coordinator

Subject: Re: MacLellans Brook Wind Farm

My apologies. See revised WTG1 coordinates for Barrington.

Andrew

On Mon, Dec 3, 2012 at 9:15 AM, Andrew Arbuckle <aarbuckle@eonwind.com> wrote: Hello,

I would like to submit the following points indicating the location of our proposed wind projects in Barrington and MacLellans Brook, Nova Scotia.

MacLellans Brook (LAT/LONG WGS84)

WTG 1 - 45°30'28.74"N, 62°36'21.26"W Elevation - 188m

WTG 2 - 45°30'22.26"N, 62°36'40.20"W Elevation - 194m

WTG 3 - 45°30'24.49"N, 62°36'8.00"W Elevation - 201m

WTG 4 - 45°30'14.57"N, 62°36'27.31"W Elevation - 201m

Barrington (LAT/LONG WGS84)

WTG 1 - 43°31'10.59"N, 65°39'44.87"W Elevation - 26m WTG 2 - 43°31'18.92"N, 65°39'54.55"W Elevation - 32m

Both sites will be using wind turbine generators (WTGs) with base to tip heights of 135m a.g.l. and rotor diameters of 87 meters.

I am not sure if you have standardized forms for the purpose of this assessment, if so, please send along.

Thank you,

--

Andrew Arbuckle

B. Eng, Eon WindElectric

Office: +1 902 482 8687 Mobile: +1 902 401 1076 Fax: +1 866 314 5349

200-300 Prince Albert Rd. Dartmouth, NS B2Y 4J2

www.eonwind.com

Andrew Arbuckle

B. Eng, Eon WindElectric

Office: +1 902 482 8687 Mobile: +1 902 401 1076 Fax: +1 866 314 5349

200-300 Prince Albert Rd. Dartmouth, NS B2Y 4J2

www.eonwind.com

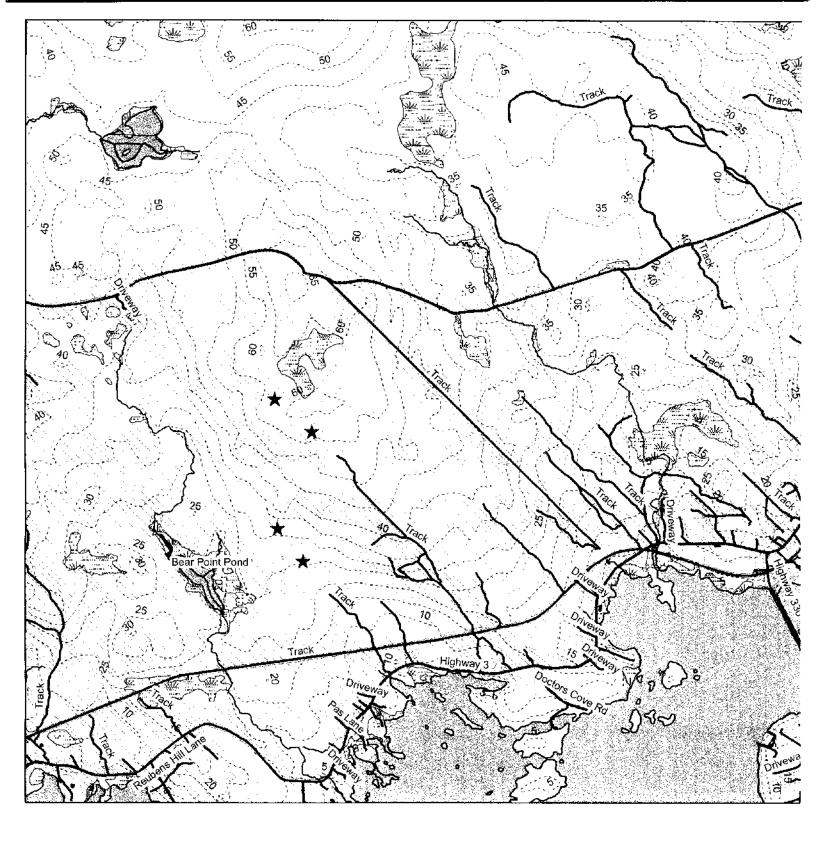


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Andrew Arbuckle	ica:									
Contact's Telephone No. – N° de téléphone de l 902 – 482 – 8687	iaison			o. – N° de 4–534	télécopieur)	de liaison			dress – Adresse électr eonwind.com	
Applicant's Name – Nom du requérant See above		Addres	ss – Adres	se						
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Regional Manager Aerodrome Safety Gestionaire Régional Sécurité des aérodromes

Signature





LAND USE PROPOSAL SUBMISSION FORM

Date Received by NAV CANAD:	4	NC file N°./ Ref N°			TC FileN°	° / Ref N°		
GENERAL INFORMATION	V:			w.177				-
Company/Owner Name: W	atts Wind Energy Inc.		Contact	Person: An	drew Arbuck	le		···
Address: 300 Prince Albert Road			City: Dartmouth Prov: NS Postal Code: B2Y 4J2					
Tel: 902-482-8687	Fax: 866-314-5349	Email: aarbi	ickle@eon	wind.com	24 Hour En	nergency	Number: 902-401	-1076
Applicant: See above		***************************************	Contact	Person:	l			
Address:			City:	_	Prov:	Pos	stal Code:	v745.
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Airport Authority : (If within 6 km of a lighted ae	rodrome)		Airport	Manager:				
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High Powered Transmission	s 🔲 Details		
VHF Radio	☐ Details		
Other	Details		
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		ions to vision to the installation:	22 10 VIER, 1303, C. INS.
Line of Sight	Details	ions to vision to me instantation.	
Communication of Communication			
Generation of Smoke/Vapour	☐ Details		
Reflectivity	☐ Details		
Aircraft Parking	☐ Details		
Exterior Lighting	Details		
MAPS/DRAWINGS (Require		_	
_		airport OR on airport without NAV	
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		location of the proposed structure clearly ma	
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		o scale, with distance bar, showing 90° distant eshold. Note: reference TP1247 to determin	aces to nearest runway centre line/centre line
centerline of a localizer/IL	•		te requirement when along an extended
		na plan view (with north arrow indicator) detail	ing orientation of building and dimensions;
and profile view detailing (maximum height c	f building (including rooftop structures) and	elevation at grade level.
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		location of the proposed structure clearly ma	
indicating the map datum (-
		, showing orientation of structures including	
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			ng areas (runways and taxiways) identifying
existing structures along the requirements for criteria of		cross section (profile) view and plan view for areas.	ormat. Retel to thay Canada signifile
		plan view (with north arrow indicator) detail	ing orientation of building and dimensions;
		f building (including rooftop structures) and	
Applicant/Representative Sig	nature	Print Name	Date
		Andrew Arbuckle	15-Dec-2012

For a detailed description on NAV CANADA's requirements and additional information, refer to the NAV CANADA website at www.navcanada.ca >Land Use Proposal





RE: Barrington Wind Farm

Weather Radars Contact, National Radar Program [Ontario]

Fri, Dec 14, 2012 at 1:12

<weatherradars@ec.gc.ca>
To: Andrew Arbuckle <aarbuckle@eonwind.com>, "Weather Radars Contact, National Radar Program [Ontario]"

<weatherradars@ec.gc.ca>

Dear Mr. Andrew Arbuckle,

Thank you for contacting the Meteorological Service of Canada, a branch of Environment Canada, regarding your wind energy intentions.

Our preliminary assessment of the information provided to us via e-mail on December 4, 2012 indicates that any potential interference that may be created by the Barrington Wind Farm near Barrington, NS will not be severe. Although we would prefer our radar view to be interference free, this is not always reasonable. As a consequence, we do not have strong objections to the current proposal.

If your plans are modified in any manner (e.g. number of turbines, height, placement or materials) this analysis would no longer be valid. An updated analysis must be conducted.

Please contact us at: weatherradars@ec.gc.ca.

Thank you for your ongoing cooperation and we wish you success.

Best Regards,

Carolyn Rennie

Carolyn Rennie

National Radar Program Meteorological Service of Canada Environment Canada 4905 Dufferin Street Toronto, Ontario M3H 5T4 Office: 3N-WS12

Carolyn.Rennie@ec.gc.ca Phone: 416-739-4931

Carolyn Rennie

Le Programme Nationale de Radar Service météorologique du Canada

Environnement Canada 4905, rue Dufferin

Toronto, Ontario M3H 5T4

Bureau: 3N-WS12

Carolyn.Rennie@ec.gc.ca Téléphone : 416-739-4931

From: Andrew Arbuckle [mailto:aarbuckle@eonwind.com]

Sent: Tuesday, December 04, 2012 9:44 AM

To: Weather Radars Contact, National Radar Program [Ontario]

Subject: Re: MacLellans Brook Wind Farm

Hello,

Please see the revised coordinates for WTG1 in Barrington.

Andrew

On Mon, Dec 3, 2012 at 9:15 AM, Andrew Arbuckle <aarbuckle@eonwind.com> wrote:

Hello,

I would like to submit the following points indicating the location of our proposed wind projects in Barrington and MacLellans Brook, Nova Scotia.

MacLellans Brook (LAT/LONG WGS84)

WTG 1 - 45°30'28.74"N, 62°36'21.26"W Elevation - 188m

WTG 2 - 45°30'22.26"N, 62°36'40.20"W Elevation - 194m

WTG 3 - 45°30'24.49"N, 62°36'8.00"W Elevation - 201m

WTG 4 - 45°30'14.57"N, 62°36'27.31"W Elevation - 201m

Barrington (LAT/LONG WGS84)

WTG 1 - 43°31'10.59"N, 65°39'44.87"W Elevation - 26m

WTG 2 - 43°31'18.92"N, 65°39'54.55"W Elevation - 32m

Both sites will be using wind turbine generators (WTGs) with base to tip heights of 135m a.g.l. and rotor diameters of 87 meters.

I am not sure if you have standardized forms for the purpose of this assessment, if so, please send along.

Thank you,

--

Andrew Arbuckle

B. Eng, Eon WindElectric

Office: +1 902 482 8687

Mobile: +1 902 401 1076 Fax: +1 866 314 5349

200-300 Prince Albert Rd. Dartmouth, NS B2Y 4J2

www.eonwind.com

--

Andrew Arbuckle

B. Eng, Eon WindElectric

Office: +1 902 482 8687

Mobile: +1 902 401 1076 Fax: +1 866 314 5349

200-300 Prince Albert Rd. Dartmouth, NS B2Y 4J2

www.eonwind.com



Detailed Analysis Results - Barrington - Eon Wind Electric - Barrington, NS - WTA-2001

ADIN.SWITZER@forces.gc.ca < ADIN.SWITZER@forces.gc.ca>

Fri, May 25, 2012 at 4:32 PM

To: aarbuckle@eonwind.com

Cc: JOCELYN.BELAND@forces.gc.ca

Andrew,

We have completed the detailed analysis of your proposed site, Barrington - Eon Wind Electric, located near Barrington, NS (WTA-2001). The results of our detailed analysis have shown that there is likely to be minimal interference with DND radar and flight operations.

Therefore, as a result of these findings we have no objections with your project as submitted (attached). If however, the layout were to change/move, please re-submit that proposal for another assessment using the assigned WTA number listed above. The concurrence for this site is valid for 24 months from date of this email. If the project should be cancelled or delayed during this timeframe please advise this office accordingly. It should be noted that our office looks at each submission on a case by case basis and as such, concurrence on this submission in no way constitutes a concurrence for similar projects in the same area, nor does it indicate that similar concurrence might be offered in another region.

Finally, the concurrence offered in this email extends only to the subject projects and current proponent. Should the project or any part of it be altered, or be sold to another developer, this office must be notified and we reserve the right to reassess the project.

Thank you for your patience on this matter and for considering DND radar and airport facilities in your project development process.

If you have any questions feel free to contact me.

Thank you.

Barrington Turbine 1 43 31 49.58 -65 39 42.06 60.00 78.00 82 179 Turbine 2 43 32 4.34 -65 40 3.48 60.00 78.00 82 179

Adin Switzer
Capt
AEC Liaison Officer
CCISF/ESICC
ATESS/ESTTMA
Défense nationale | National Defence
8 Wing Trenton, Astra, ON K0K 3W0
TEL: 613 392-2811 Ext4834 (CSN: 827-4834)

FAX: 613 965-3200

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Appendix 3: DRAFT EPP

Barrington Wind Farm (3.2MW)

DRAFT Environmental Protection Plan

Barrington Wind Project 4410 Highway 3, Atwoods Brook Barrington, Nova Scotia

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Section A - Introduction

1.0 General

The Barrington Wind Farm (Project) is proposed as a 3.2 megawatt (MW) wind energy installation about 5 kilometers (km) west of the Town of Barrington Passage in the District of Barrington. The site is located in the community of Atwoods Brook which is approximately 0.8km east of Bear Point Pond.

Figures of the site can be found in Appendix A. Watercourses have been preliminarily identified on or near the site as shown in Appendix A; generally the site considered to be in a lowland region. Small woodland swamps have been preliminarily identified. Alterations to watercourses and wetlands will be avoided, when reasonably possible; the Proponent will following the approach of avoidance, mitigation and compensation. Similarly rare flora and fauna have been identified and will be avoided by the Project.

This document is in draft and will be updated to incorporate regulator comments, EA Terms and Conditions of Approval, and additional field work and any final changes to project design.

2.0 Environmental Protection Plan

This Environmental Protection Plan (EPP) describes protection measures that will limit the environmental effects associated with construction and operation of the Project. The EPP identifies Project mitigation measures to support Project planning, construction and operation.

The EPP is a guide for contractors, sub-contractors and site personnel associated with the Project. It includes commitments made in the Nova Scotia Environmental Assessment (EA) Registration Document. The guide should be adhered to accordingly.

This draft version of the EPP is being submitted with the Provincial EA registration document. This allows public and regulator comments on the EA and this draft EPP to be reflected in the final EPP. Further this EPP will be updated as necessary subsequent to additional wetland field work on Project site and associated final design of the Project. The final EPP will be shared with Contractor and regulators such as Nova Scotia Environment (NSE) and Nova Scotia Department of Natural Resources (DNR).

3.0 Objective

The purpose of the EPP is to provide guidelines and protocol regarding environmental protection measures relating to the Project. The EPP will also provide emergency information in the event of an incident on site. It is intended to direct the work completed by the contractors, sub-contractors and site personnel to ensure environmental protection.

4.0 Training

The Project Manger is responsible for ensuring that all personnel on site have a level of training that is commensurate with their responsibilities.

Section B - Erosion and Sediment Control

1.0 General

Construction and large scale earth-moving projects have the potential to speed up erosion when large areas of soil are exposed to rain and stormwater runoff. The runoff must be properly handled to avoid siltation in nearby watercourses.

The Proponent and its contractors are responsible for erosion and sediment control specific to their activities within the Project site. This section details protocols and procedures for effective sediment and erosion control measures in accordance with the Erosion and Sediment Control Handbook for Construction Sites, 1988 (ESCH).

The Project footprint was delineated with input from the results of wetland identification and botanical surveys. Direct alteration to watercourses and wetlands will be avoided when feasible; however, the final EPP will detail any required alterations and requirements of regulatory approvals.

The limits of work was designed in part to minimize potential of sedimentation of watercourses and wetlands; however, as with an earth work activity, there remains some potential for sedimentation if erosion and sediment control measures are not well managed during or after heavy storm events. Hence erosion and sedimentation control is essential to this Project.

2.0 Protocol

- a) The Contractor must prepare a sediment and erosion plan and establish erosion and sediment control measures prior to construction activities.
- b) Earth works should be avoided during heavy rainfalls or periods of high runoff. Where extreme events are forecast, the site shall be temporarily stabilized where possible.
- c) The Contractor will avoid areas subject to flooding, including defined watercourses and wetlands as indicated on construction drawings and as marked in the field. The lay down areas must be selected to avoid natural drainage and preserve existing runoff channels, e.g., ditching. Any work in watercourses or wetlands is clearly defined on the drawings and in this EPP; no work shall occur without regulatory approvals.
- d) Sedimentation fencing and vegetative filters (e.g., hay bales) will be installed as needed, i.e., downgradient of exposed soil areas. Detail on proper installation of such measures can be found in the ESCH, e.g., keying in of sedimentation fencing.
- e) Extent and duration of exposed soil will be minimized as much as possible, i.e., expose the smallest feasible area and only areas that are being actively developed.
- f) Care will be taken to minimize tracking of sediment from vehicles on Highway 3 from the access road. This area will be checked daily by the Contractor and swept as needed.
- g) After grading is completed, the Contractor will stabilize exposed soils as soon as reasonably possible, including placing gravels and establishing permanent vegetation.
- h) Sediment and erosion control measures will be monitored daily during active construction by the Project Manager or designate. Monitoring will continue post construction after excessive precipitation events until the site is stabilized.

Section C - Wetlands and Watercourses

1.0 General

It is imperative that all contractors and on-site personal understand the importance of avoiding watercourses and wetlands unless their alteration has been identified in the construction package. The site drains southwest generally and several low flow or intermittent watercourses will be bisected by the access road. There will be a need to install culverts as part of access road design. Numerous small wetlands (primarily wooded swamps) have been preliminarily identified along the proposed access road corridor, as well as linear wetlands along watercourses. Any necessary alteration to wetlands will be identified and mitigations clearly stipulated in the final EPP; while avoidance is preferred, it may not be feasible. Additional field work and design will occur in Spring 2013; this EPP will be updated accordingly.

The culvert installations will be done in accordance with NSE and DNR requirements and during the summer low flow period and in compliance with the Nova Scotia Watercourse Alteration Specification (2006). Accordingly no effect on fish or fish habitat is expected from the Project.

As the Project avoids fresh water fish habitat and marine environs, the Department of Fisheries and Oceans (DFO) does not have a direct interest in this Project; however, should the Contractor not follow the site plan and this EPP and negatively impact fish or fish habitat, the Fisheries Act could be invoked by DFO. Accordingly, the Contractor must conduct on-site operations in a manner that causes minimal disturbance to receiving waters, e.g., no releases of heavily sediment laden water or hazardous materials, e.g., fuel.

Work will be completed in accordance with the Nova Scotia Wetland Conservation Policy, and appropriate approvals will be sought, if necessary, from NSE under the Activity Designation Regulations, including wetland compensation if required.

This EPP will be updated accordingly pending additional work and final design in spring of 2013.

2.0 Protocol

- a) No work will occur in watercourses or wetlands without obtaining necessary approvals from NSE. This will be the responsibility of the Project Manager.
- b) There is a need to upgrade the existing wood roads watercourse crossing for the construction of the access road; this work requires up to 5 culvert upgrades and will be completed between June 1 and September 30 in accordance with NSE and DNR regulatory requirements. Work will be in compliance with the Nova Scotia Watercourse Alteration Specification (2006). DNR and NSE will be consulted; specific mitigations for this work will be included in the final EPP.

- c) The Project Manager will define the limits of site work as it relates to wetlands by flagging boundaries and defining appropriate buffers. This will occur pending additional wetland field work in Spring 2013. All on-site personal will be informed of these sensitive areas as identified on mapping in Appendix A. This mapping will be updated pending additional wetland field work.
- d) The disposal of any substance into a watercourse, directly or indirectly, is strictly prohibited during all phases of the Project.
- e) Erosion and sediment control measures must be accurately followed to preserve the highest degree of water quality protection.
- f) All refueling activities must take place with a 50m setback from all watercourses and wetland areas (see Section E for additional detail on hazardous materials).
- g) All on-site equipment must be mechanically sound. No fuel or hydraulic leaks are permitted; accordingly, equipment must be inspected daily (see Section F for additional detail on equipment maintenance).

Section D - Wildlife

1.0 General

The Project Manager is responsible for ensuring all contractors and on-site personnel are provided with appropriate information and protocols in the event of a wildlife encounter and potential to encounter species at risk or of concern. Wildlife sightings should be reported to the Project Manager. All reasonable action will be taken to avoid disruption and injury to any wildlife encountered.

2.0 Protocol for Wildlife Encounters

- a) Harassing wildlife in any manner is strictly prohibited on site.
- b) There will be no interaction or feeding of wildlife on site.
- c) To minimize the potential for attracting wildlife, all on-site personnel must use the garbage disposal units provided.
- d) Equipment and vehicles will yield to wildlife.
- e) Injured or deceased wildlife should be reported to the Project Manager who will then contact a Provincial Wildlife Officer to aid or remove the animal. Personnel are prohibited from making direct contact with the animal.

- f) Any unlawful or accidental killing of wildlife must be reported to the Project Manager as soon as reasonably possible.
- g) The possession or use of firearms on site is strictly prohibited.

3.0 Protocol for Nesting Birds

- a) Site clearing is scheduled to take place during nesting bird season (i.e., April 1 to August 31 for most birds). An experienced ornithologist will be commissioned to complete a nesting bird survey prior to site clearing. The survey results will be issued to DNR and Canadian Wildlife Service (CWS).
- b) If nesting birds are encountered during construction, the Contractor will not disturb the nest. The sighting must be reported to the Project Manager immediately for direction.
- c) If the Project Manager requires advice in avoiding the nest, a Regional Biologist at the DNR and the CWS may be contacted. The nest will not be disturbed until the fledglings have left the nest.

4.0 Monitoring for Bird and Bat Carcasses

- a) As per the requirements of CWS and Environment Canada (EC), follow up and monitoring plan will be developed for the site and implemented once approved by CWS and EC. This work will be in accordance with the two 2007 guidance documents from EC: Wind Turbines and Birds: A Guidance Document for Environmental Assessment and Recommended Protocols for Monitoring Impacts of Wind Turbines on Birds. Results will be communicated in an annual report to NSE, CWS and EC.
- b) The Project Manager will be notified of any bird or bat carcasses that are found on the site during regular maintenance checks, e.g., within the area of the turbine pad.
- c) The Project Manager will log the discovery of a bird or bat carcass found during routine inspections. The information logged should include: species; date and time the carcass; state of decomposition; estimated number of days the bird has been deceased; and injury sustained (if identifiable). The Project Manager will contact CWS for advice on subsequent actions, such as potentially freezing the carcass to send to CWS. Any discovery outside of the formal carcass surveys will be included in the formal annual report.

5.0 Protecting Species at Risk and of Concern

- a) Three separate rare plant surveys did not reveal any plant species at risk.
- b) There is moderate potential for Blanding's and Wood Turtle to be present in the local area of the Project site. Both Blanding's and Wood Turtle are a provincially and federally listed species, i.e., Endangered and Threatened (Canada) & Endangered and Vulnerable (NS) respectively.
 - a. There is potential for potential for Wood Turtles to nest in stream beds or in road shoulder, i.e., sandy/graveling substrate. during late May - early July. Accordingly the site personnel will be educated by the Project Manager on the potential presence of the Wood Turtle.
 - b. The Blanding's turtle is also known to stray several hundred meters from a body of water in search of mates. Females will generally nest in late May-June.
 - c. DNR education materials will support this training.
 - d. If any site personnel identify a Wood or Blanding's Turtle or the potential of a nest, the Project Manager will be notified immediately. The Project Manager will contact DNR with any questions and to share findings.
- c) Surveys have been completed for Mainland Moose; evidence was found of Mainland Moose in the local area based on the survey, observations within 2km of the project site have been made.
 - a. Additional field work will be completed in Spring 2013; this EPP will be updated accordingly including adding any requirement for postconstruction monitoring.
 - b. Should the any personnel observe a Moose in the Project area or immediate environs of the Project, they will notify the Project Manager immediately. The Project Manager will notify DNR of these findings.

Section E – Hazardous Waste Management Including Spills

1.0 General

In the event of an accidental spill or hazardous waste incident, the primary concern is preventing the spill from entering a watercourse or wetland. Responding to the incident as quickly as possible will ensure a minimized risk of adverse environmental impact. At all times when hazardous materials are on-site, there must be operational personnel on site that are trained to handle, store, and dispose of hazardous materials.

2.0 Protocol

- a) Spills or releases that are contained within the site will be the responsibility of the Project Manger; further assistance will be needed to respond to larger or more serious spills. See Appendix B for emergency contact table.
- b) For a spill of greater than 100L of fuel, oil, paints or sealants, the Project Manager will report to Nova Scotia Environment (1-800-565-1633) and the Operator (902-755-2237).
- c) If the spill has, or may enter, any watercourse or wetland, or the spill cannot be removed safely, the 24-hour spill reporting number (1-800-565-1633) will be called regardless of the estimated size of the spill.
- d) The Contractor will be equipped with an emergency spill containment kit that will adequately control the loss of fuel or lubricant.
- e) Only personnel with specific training in spill containment may attempt to respond to a release of a hazardous material.
- f) A common method for controlling and containing spills is through the use of absorbents. Common materials used are: sand, dirt, gravel and wood chips. If used, the contaminated absorbent must be collected and placed in appropriate containers with proper labeling.
- g) Fuel, fuel storage, lubrication and equipment maintenance will be done at a designated site away from watercourses or wetlands. The area must be on level terrain, and ideally have an impermeable surface and containment system. The area must not be within 50m of the ordinary high water mark of a body of water.
- h) All dangerous goods must be transported in accordance with federal and provincial legislation.
- i) All hazardous material must stored in an approved container in accordance with federal and provincial legislation.
- j) All hazardous materials must be disposed of at an approved facility in accordance with provincial and federal legislation.
- k) Products must be properly labeled and handled only by trained on-site personnel.

1) A Material Safety Data Sheet (MSDS) will be kept on site to record all hazardous material inventory stored on site. The MSDS will be kept on file for emergency response teams in the event of a fire or explosion.

Section F – Use and Maintenance of Equipment and Vehicles

1.0 General

The Contractor is responsible for appropriate use and maintenance of equipment such that safety is considered at all times. Air emissions and noise will be minimized, as will be the potential for leaks and spills.

2.0 Protocol

- a) All on-site personnel must comply with provincial and federal restrictions as it relates to transportation and vehicle management.
- b) All drivers will obey local traffic laws, including speed limits, and practice safe, defensive driving.
- c) The Project Manager will coordinate with the RCMP and Nova Scotia Transportation and Infrastructure Renewal (NSTIR) to ensure proper permitting and safe transport of wide or heavy loads.
- d) All construction equipment and vehicles must be suitably clear or debris and cleaned / pressure washed if necessary before being brought to the site to reduce transport of invasive species.
- e) Equipment must undergo routine maintenance to minimize noise impacts. See Section I, 3.0 for a discussion on noise.

Section G – Waste Management

1.0 General

Wastes created during construction of the Project are the responsibility of the Contractor completing the construction activities. In terms of operation, wastes again are

responsibility of the party completing the activity, e.g., regularly scheduled turbine maintenance. Hazardous waste management was addressed in Section E.

2.0 Protocol

- a) Recycle and re-use solid and liquid (e.g., fuel, oil, solvents) waste, where possible; dispose of all remaining waste as per provincial and federal guidelines.
- b) Sewage and grey wastewater collected on site should be disposed of according to provincial standards.
- c) Proper garbage disposal units must be provided on site. All litter and site waste should be collected daily and disposed of at an approved facility.
- d) Burning any products is strictly prohibited.
- e) Merchantable timber shall be cut into lengths for salvage at discretion of Contractor with non-merchantable timber chipped and disposed of according to provincial standards

Section H - Contingency and Emergency Response

1.0 General

All reasonable precautions will be taken by the Project Manger and on-site personnel to avoid an accident or injury. In the event of an accident or injury, preparation and quick response is crucial in minimizing adverse effects to on-site personnel and the environment. This section outlines plans and protocols for reasonably conceivable emergencies that could take place on site. The Emergency Reponses Table is Appendix B with relevant contact information beyond calling 911.

2.0 Explosion or Fire

Explosion or fire may occur on site as a result of many different factors, some of which include: vehicle accidents, combustion of spilled material, negligent handling of flammable materials or vandalism.

The Project Manager is responsible for having appropriate fire fighting equipment on site and available to respond to minor fires, if it is safe to do so. There must personnel on site at all times that are trained to use this fire protective equipment, such as fire extinguishers.

In the event of a fire:

- a) Contact 911 Emergency Services for assistance.
- b) If the fire is minor and it is safe and feasible to do so, a trained member of staff may attempt to extinguish the fire. Only individuals trained in the proper use of fire extinguishers may attempt to extinguish the fire.
- c) Personal protective equipment will be used by all responding personnel to ensure protection from the fire and other hazardous materials potentially emitted in the process.
- d) The area will be carefully monitored to ensure the fire has been completely extinguished.

As a preventative measure against fire, smoking is allowed in designated smoking areas only as defined by the Project Manager. These areas must be greater than 50m away from all flammable or hazardous materials.

3.0 Personal Injury or Fatality

If an accident or fatality does occur on site, the following actions will be taken immediately:

- All personal injuries and accidents will be responded to immediately.
 Appropriate first aid measures will be employed provided the measures will not further aggravate the victim.
- b) Only individuals with current First Aid Certification will perform the first aid. The severity of the injury should be assessed; 911 Emergency Services will be contacted if additional medical attention is required.
- c) In the event of a fatality, contact 911 immediately and respond as further directed.
- d) In the event of injury or fatality, the Project Manager will be informed as soon as possible.

4.0 Discovery of Human Remains

In the event suspected human remains are encountered on site, the following action will be taken:

- a) Cease all work related activities and secure the site to avoid further disturbance.
- b) Contact 911 services for further assessment of the remains.
- c) If it is determined that the remains are human, representatives of the Nova Scotia Department of Communities, Culture and Heritage will be contact as soon as reasonably possible. If the remains or artifacts discovered are potentially of Mi'kmaq significance, KMK will also be notified.

5.0 Cultural Artefacts

If a suspected cultural artifact is found:

- a) The Project Manger will stop all work in the vicinity of the artifact and secure the site to avoid further disturbance.
- b) The Department of Communities, Culture and Heritage and the KMK will be contacted for advice and further assessment as appropriate.

6.0 Emergency Response Table

In the event of any emergency where police (RCMP Barrington Office), fire (Barrington) or ambulance is required for response as soon as possible, call 911. Otherwise, the emergency response table in Appendix B has additional contacts related to the Project.

Section I – Site Management

1.0 General

During the Project construction and operations phases, the Project Manager is responsible for appropriate site management. In addition to the various aspects of site management already addressed in the EPP, site access and signage, noise and light management, and monitoring are key to minimizing impact on the environment and human receptors, such as neighbours.

Associated requirements for community liaison and resolution in the event of complaints are addressed in Section J.

2.0 Site Access and Signage

- a) Public access to the Project site is prohibited. "Restricted Access" signs will be posted at the entrance to the access road.
- b) A gate will be installed at the entrance road to the Project site to prevent unauthorized site access.
- c) Appropriate signs will be placed on site during operation indicating the danger of falling ice, e.g., ice throw potential from the turbine blades or flying debris.
- d) As defined in Section J, signage will contain contact information of the Proponent.

3.0 Noise

During construction, noise will be generated from vehicles and equipment and related activities. The closest residence is greater than 1000m from the Project site; it is anticipated that any inconvenience caused by construction is a temporary, short term nuisance. Should any public annoyance result from construction of the Project, it is expected to be very low and will be mitigated via the Contractor measures as noted below and community liaison as per Section J of this EPP.

To mitigate construction noise, the following will be adhered to by the Contractor.

- a) Ensure that all vehicles are maintained properly and have appropriate noise suppression equipment.
- b) Where possible, use rubber tire equipment.
- c) Reduce idling, where practical.
- d) Minimizing noise by training of employees on management practices such as avoiding use of loud radios, shouting excessively, slamming of equipment doors, etc.

Blasting may be required as part of this work; if so, a protocol will be included in the final EPP. Work will be in accordance with regulatory requirements.

If noise complaints are made by community residents, a complaint resolution procedure is followed. Where possible, the Project Manger will alter the construction planning to accommodate concerns (see Section J).

The Project will use commercially reasonable efforts to limit construction activities to the daytime. Should the Project Manager require work to be completed during nighttime hours, the Project Manager will use the community liaison protocols outlined in Section J.

During operation of the wind turbine, there will be turbine noises that may be audible in terms of low-level continuous or intermittent swooshing, as well as low level frequencies. While noise is expected to be at very low levels at these distances from the turbines (greater than 1000m from closest residence), it is important that neighbours are informed that some increase to baseline sound pressure level is expected though it is expected to be inaudible under most conditions. Further, the community has been provided with contact information to share any questions or concerns with the Proponent. Community consultation and complaint resolution is discussed in Section J.

While no follow up monitoring of noise is proposed for this Project, it may be an outcome of the complaint resolution procedure (Section J) if concerns exist.

4.0 Lighting

Lighting can impact birds as well as neighbours. Like noise, consultation and complaint resolution should address issues respecting lighting with neighbours (see Section J).

Primary aspects in lighting as applied to this Project are:

- a) Lighting on the turbines is required to comply with aviation legislation (Transport Canada).
- b) Preparation of a lighting plan in consultation with Canadian Wildlife Service and Transport Canada.
- c) Proponent will review use of LED lighting that has a definite on/off setting as recommended by Environment Canada.
- d) Any required lighting on ancillary buildings will be shielded to shine down.

5.0 Project Monitoring Requirements

a) During active construction, ongoing monitoring will occur by the Contractor. Primarily this will involve erosion, site stabilization, and equipment maintenance including checking for leaks. The Project Manager will perform intermittent inspection of the Contractor's activities respecting compliance with Contract documents including this EPP.

- b) Operation and maintenance will be coordinated by the Project Manager. The staff and contractors will report issues to the Project Manager as identified in this EPP, including but not limited to destabilized surfaces (i.e., exposed soil), bird or bat carcass discovery, as well as vandalism and other issues.
- c) Malfunctions and parts replacement will be assessed on an ongoing basis during operation and are subject to calendar maintenance and regular inspection schedules.
- d) As defined in Section D, 4.0, ongoing inspections during maintenance visits will include a review of area around wind turbine pad for bird / bat carcasses with notification of the Project Manager if any are found. Post construction requirements as per CWS and the Department mandates will also be followed, including design, implementation and annual reporting of the bird and bat follow up program.
- e) Given the scope of this Project, no noise monitoring is required; however, noise monitoring will be considered in the event of public complaints (see Section J).

Section J - Community Liaison

1.0 General

The Project Manager will ensure that the community is updated on project planning, construction activities and commissioning of the wind turbine. As this is a community energy project, liaison with the community is integral in the planning. This also ensures that any neighbours or other interested community members with questions or concerns will have Proponent contact information such that their questions or concerns can be promptly addressed.

In the event of public complaints, the Project Manager will ensure that the complaints are addressed via respectful communication, including joint fact finding, and review and implementation of mitigation measures as appropriate.

2.0 Communication and Notification

a) The Project Manager will provide advance notice to neighbours concerning construction and operational phases via mail outs. Information will include construction schedule, defined activities that are expected to create noise and their expected duration, mitigation measures that are being used and noise respite

- periods, i.e., quiet times. Expectations in terms of potential noise and lighting during operation of the turbine will also be conveyed in the information prior to commissioning.
- b) A website is constructed for communication with stakeholders, including neighbours (http://wattswind.com). This will be updated with construction schedule and other announcements.
- c) Site information signage will be present at gated entry to site with Proponent contact details for stakeholders to gather more information.
- d) Both signage and mail outs will have Proponent contact information such that all comments or complaints will be forward to the Proponent contact for review. See Appendix B for contact information; this list will be updated as appropriate.
- e) The Proponent contact information and copies of the Environmental Assessment should be made available via the Barrington Municipal Library and at the Municipal Building in Barrington, as well as on the Department's website.
- f) Comment forms will be made available in the mail out to facilitate communication of concerns or questions with the Proponent.

3.0 Complaint Resultion Protocol

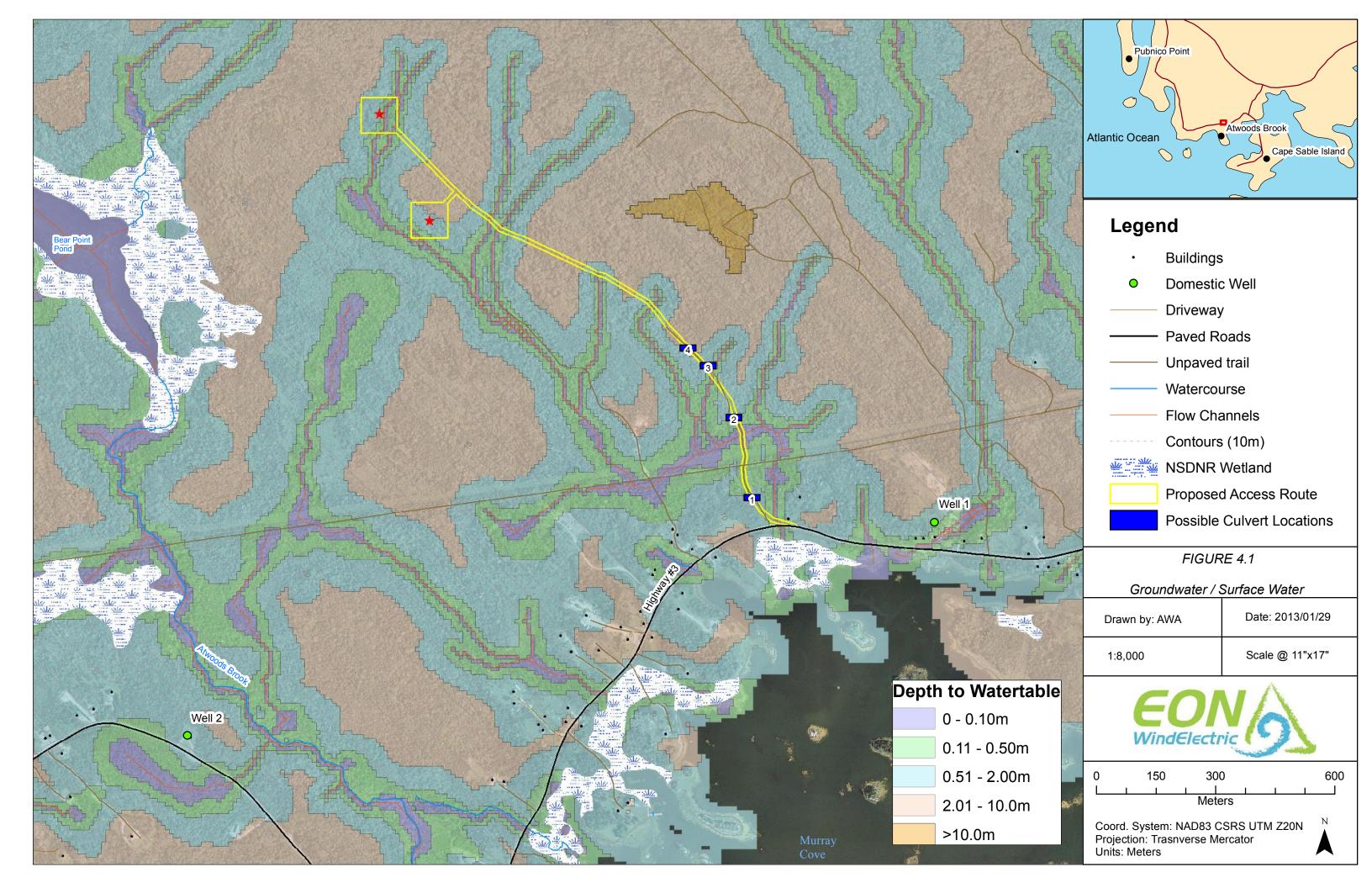
- a) Complaints or comments will be reviewed by the Project Manger or designate.
- b) Within a maximum of one week from receiving the communication, the Project Manager or designate will provide an initial response to the question or concern.
- c) Where a member of public expresses a concern, the Proponent will seek to better understand the perspective of the community member and the specifics of the complaint. The Proponent and community member will embark on joint fact finding to identify the source of the complaint and possible mitigative measures.
- d) The Project Manager will review possible mitigations available in consultation with the Proponent management team. These options will be discussed openly with the community member. Efforts will be made to contact a member of the Community Liaison Committee (CLC) should a CLC be formed for the Project.
- e) Appropriate and reasonable action will be taken to mitigate impacts caused by the Project, including noise monitoring, landscaping, etc.
- f) In the unlikely event that complaints cannot be resolved directly with the community member, the Proponent will seek review options in a form of alternate dispute resolution as defined under the *Nova Scotia Environment Act*, including

but not limited to conciliation, negotiation, mediation or arbitration. It is expected that most if not all concerns can be addressed directly with the resident or other stakeholder.



Appendix A – Site Plan





Appendix B – Emergency and Project Contact Information



Organization	Contact Name/ Service	Address	Phone Number
Island and Barrington Fire Department		Centreville, Clark's Harbour, NS B0W 1P0	(902) 745-0228
Stellarton RCMP Detachment		2486 Hwy 3 Barrington, Nova Scotia P.O. Box 38 B0W 1E0	T: (902)637-2325
Poison Control	NS Poison Information Centre		1(800) 565-8161
CANUTEC	Dangerous Goods Emergencies		1 (613) 996-6666 (collect) *666 (cellular)
Regional Spill Reporting Number	24 hour Emergency and Environmental Response		1 (800) 565-1633 or (902) 426 –6030
Hospital	Yarmouth Regional Hospital	60 Vancouver, Yarmouth, NS B5A 2P4	(902) 742-3541
Nova Scotia Power Inc.	Report Power Interruption		1 (877) 428-6004
Watts Wind Energy Inc.	Stan Mason, President	200- 300 Prince Albert Road, Dartmouth	1 (902) 468-3579
Eon WindElectric Inc.	Paul Pynn, President	200- 300 Prince Albert Road, Dartmouth	1 (902) 482-8687
Eon WindElectric Inc.	Andrew Arbuckle, Project Engineer-In-Training		1 (902) 482-8687
Nova Scotia Department of Labour	Occupation Health & Safety Division		1 (800) 952-2687
Nova Scotia Department of Transportation & Public Works	24 Hour Service		1 (902) 742-4612
Kwilmu'kw Maw-klusuaqn Negotiation Office	Eric Christmas	851 Willow Street, Truro, NS B2N 6N8	(902) 843 3880
Acadia Landing First	Chief Deborah Robinson	10526 Highway #3 Yarmouth, NS	1-902-742-0257

Organization	Contact Name/ Service	Address	Phone Number
Nation		B5A 4A8B0K 1X0	
Department of Tourism, Culture and Heritage	Laura Bennett Coordinator, Special Places		(902) 424-6475
Department of Natural Resources	David Gordon, Area Supervisor	404 Hwy. 308 North Tusket, Nova Scotia B0W 3M0	(902) 648-3526

