



File: D03 – Windlectric

January 27, 2016

Algonquin Power Co.
354 Davis Road, Suite 100
Oakville, Ontario
L6J 2X1

Attn: Alex Tsopeles, Project Manager, Renewables

Dear Alex:

Re: Review of Workplan, Geotechnical Investigation

Thank you for providing the above-noted report for our review. Our consultant, AECOM, has prepared a response compiled from their observations as well as Loyalist Township staff comments on the report. We are pleased to attach these for your review and comment.

Please do not hesitate to contact the undersigned at 613-386-7351, ext. 117, should you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "David MacPherson", with a long, sweeping underline.

David MacPherson, C.E.T.
Public Works Manager
DM/ka

Encl.

January 26, 2016

Mr. David MacPherson C.E.T.
Manager of Public Works
Loyalist Township
263 Main Street, P.O. Box 70
Odessa, ON K0H 2H0

Dear Mr. MacPherson:

Project No:

**Regarding: Review of Work Plan, Geotechnical Investigation
Amherst Island Wind Energy Project**

We have completed our review of the report entitled "Work Plan, Geotechnical Investigation, Municipal Roads" prepared by Stantec and dated December 18, 2015. Our comments are as follows:

The Purpose/objectives of the Geotechnical Investigation are adequate but there is no mention about how the information is to be used. We will assume that there will be a follow up report with recommendations regarding the adequacy of existing roads and recommendations for improvements.

Borehole Number and Locations, as well as borehole depths, are adequate, based on the information available. We have noted the following:

- BH15-02 is located on a section of Stella Road that is not part of the haul routes – should not be required.
- BH15-26&27 are on Dump Road – include Dump Road on list of roads to be investigated.
- BH15-35&36 are at proposed culverts. We have not received any information regarding proposed culverts. Diameter and invert depth/elevation of the proposed culverts is required to confirm the depth of associated boreholes.
- BH15-37&38 are at the proposed O/M Building. We have not received information regarding the structural details of the proposed O/M Building. This information is required to confirm the depth of associated boreholes.

Submission of work plan to public utilities is important but this will not identify the locations of private watermains, or buried electrical for water pumps and/or services to houses/barns, etc. Public consultation regarding this plan is recommended.

The work plan should include a section on what will be done if, based on the field investigation, additional and/or deeper boreholes are required.

The traffic control program is adequate, with the exception of the following:

- Using Typical Layout as specified on figure TL-18 of OTM Book 7 is not sufficient, as this layout is for Mobile Operations only. As per OTM Book 7, mobile operations involve work that is done while moving continuously, usually at low speeds (typically 25 km/h), or intermittently, with periodic brief stops related to the mobile activity not exceeding a few minutes in duration.

Generally, if a short stop is required to be made at a specific location, this would be considered as very short duration work rather than mobile operations. Using Typical Layout as specified on figure TL-19 of OTM Book 7 would work. Another Typical Layout which can be used is TL-20A.

- Who is providing traffic control? Will it be Stantec or another company professional traffic control crew? The crew employed should have required certifications and training.
- Speed limits should be noted on the roads where work will be carried out. This information is required for proper traffic control set up.
- Dump Road may be too narrow for drilling and maintenance of traffic. If temporary closure is required this should be noted and appropriate signage identified.

Drilling program is adequate, with the exception of the following:

- All boreholes are required to be backfilled as per MOE Reg. 903, with excess auger spoils to be placed in metal drums for subsequent removal to an appropriate soil disposal facility. Appropriate chemical testing of extra auger spoils to be removed should be included.

Closing

Gennadiiy Ilchenko M.Sc., P.Eng., P.Geo.; Geotechnical Engineer and Guy Laporte, Senior Engineer, both of AECOM, have assisted in preparation of this letter.

Sincerely,

AECOM Canada Ltd.



Marissa Mascaro, P.Eng.
Project Engineer

Marissa.Mascaro@aecom.com

GML:gl