

MEMORANDUM

To: Cooney Construction and Landscape Ltd.
Almonte, Ontario, K0A 1A0

Attention: Jennifer Cooney cooneyconst@xplornet.com

From: Hugh Williamson hugh@hwacoustics.ca

Date: 16th June 2015 **No. Pages:** 6 (including attachments)

NOISE IMPACT OPINION FOR A PROPOSED AGGREGATE PIT AT LOT 23, CONCESSION 3, GEOGRAPHIC TOWNSHIP OF DARLING

It is understood that Cooney Construction and Landscape Ltd., Cooney Construction, intend to develop an Aggregate Pit to be located at Lot 23, Concession 3, Geographic Township of Darling, Township of Lanark Highlands, County of Lanark, Ontario. The attached Plan shows the location of the proposed Aggregate Pit. This property is located on Highway 511 just south of Lukers Road.

It is also understood that Cooney Construction are in the process of applying to the Township of Lanark Highlands for changes to the Official Plan and Zoning By-law so as to permit the development of an aggregate pit on the land. To support this application, Cooney Construction has engaged acoustical consultants Hugh Williamson Associates Inc. to provide this Noise Impact Opinion.

Hugh Williamson Associates Inc. is an Ottawa based acoustical consulting firm with more than 15 years of experience in preparing noise impact assessments of aggregate and other industrial projects. We have prepared many noise impact assessments of aggregate pits and quarries in

Ontario and are very familiar with the Ontario Ministry of Environment and Climate Change, MOECC, Noise Guideline as applicable to industrial operations. The resume of Dr. Hugh Williamson, P. Eng. is attached for information.

The current MOECC Noise Guideline is NPC-300.

MOECC Document NPC-300, *Stationary and Transportation Sources – Approval and Planning*, August 2013

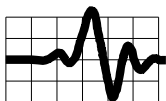
NPC-300 sets sound level limits at noise sensitive points of reception such as residences, schools, hospitals, etc. which must be met by industrial operations in Ontario. NPC-300 is the applicable Provincial standard for noise impact under the Aggregate Resources Act and the Environmental Protection Act.

It is understood that if the application for changes in the Official Plan and Zoning By-laws are successful, Cooney Construction will apply to the Ministry of Natural Resources for a license for the proposed Aggregate Pit under the Aggregate Resources Act. It is also understood that Cooney Construction will have a full acoustic assessment and an Acoustic Assessment Report prepared by a qualified acoustical consultant in conjunction with the application for a license for the Proposed Pit. A full acoustic assessment involves a detailed study of noise generated by proposed pit operations and an assessment of the noise compliance at all nearby noise sensitive points of reception according to NPC-300. The outcome of such a study will be the specification of specific noise mitigation measures which are normally incorporated into the Sit Plans for the proposed Pit and form part of the License conditions.

Noise Impact Opinion

Cooney Construction has stated that the operations to be conducted at the proposed Aggregate Pit will encompass extraction, screening, crushing and shipping of aggregate material. The operational equipment involved will consist of loaders, a screening plant, a crushing plant and trucks for shipping. By definition under the Aggregate Resources Act, aggregate material is not extracted by blasting at a Pit.

Hugh Williamson Associates Inc. has not visited the site and has not conducted a detailed noise assessment of the proposed Aggregate Pit. However, after reviewing the attached plan and reviewing the proposed operations, it is our opinion that should a detailed noise assessment be carried out, an acceptable noise mitigation plan could be devised which meets the noise impact requirements set out in NPC-300. This opinion is based on our extensive experience in carrying out noise assessments and developing noise mitigation plans for pits under similar circumstances in Ontario.



Please contact me if you have any questions.

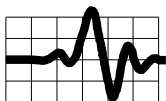
Yours sincerely

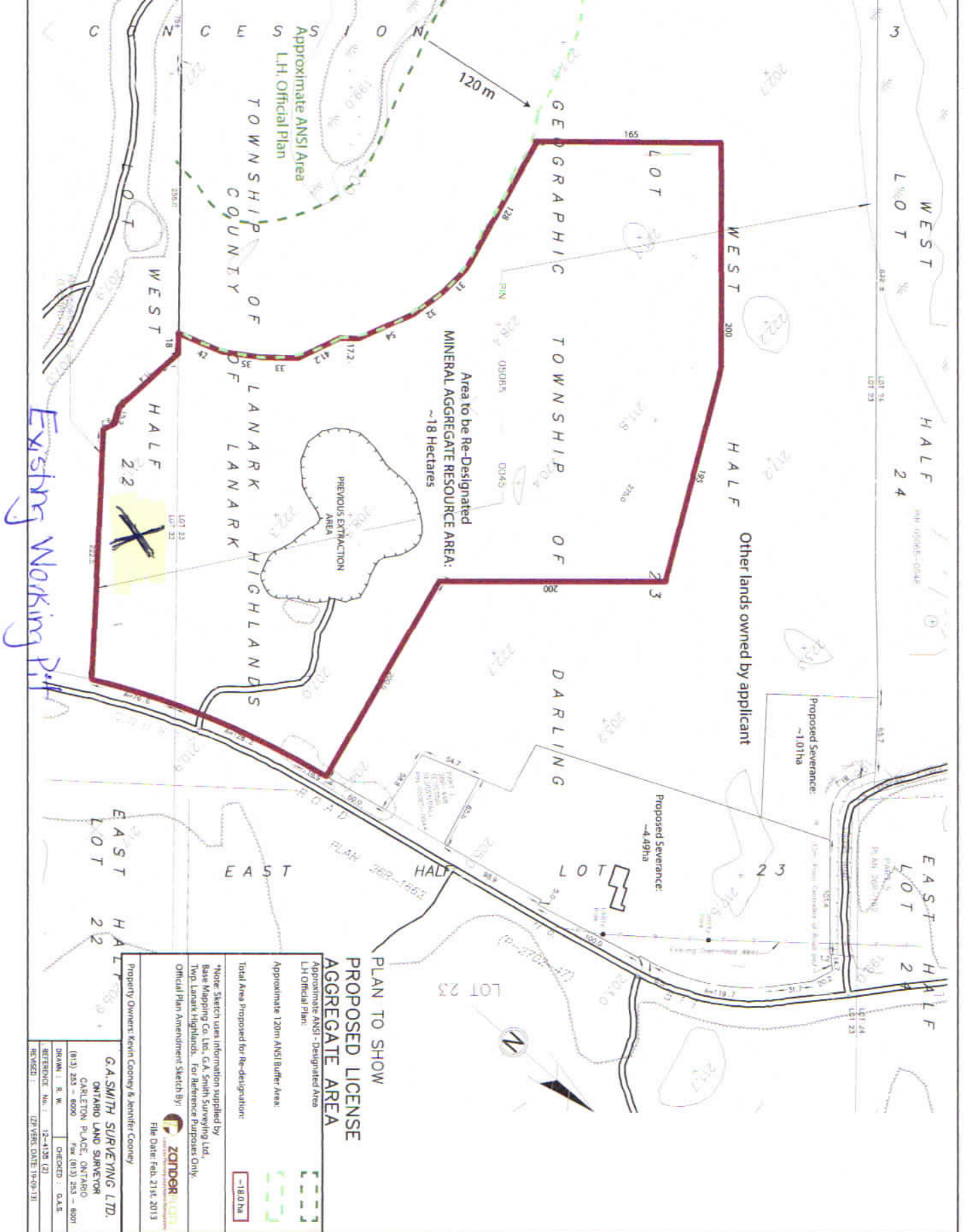


Hugh Williamson, Ph. D., P. Eng.
Member, Canadian Acoustical Association

Attachments:

Plan of Proposed Pit at Lot 23, Concession 3, Geographic Township of Darling (1 page)
Resume, Hugh Williamson (2 pages)





Area to be Re-Designated
MINERAL AGGREGATE RESOURCE AREA:
~18 Hectares

Other lands owned by applicant

Proposed Severance:
~1.01ha

Proposed Severance:
~4.49ha

Existing Working Pit

**PLAN TO SHOW
PROPOSED LICENSE
AGGREGATE AREA**

Approximate ANSI - Designated Area
LH Official Plan

Approximate 120m ANSI Buffer Area:

Total Area Proposed for Re-designation:

~18.0 ha

*Note: Sketch uses information supplied by
Base Mapping Co. Ltd., G.A. Smith Surveying Ltd.,
Type Lanark Highlands. For Reference Purpose Only.
Official Plan Amendment Sketch By:



File Date: Feb. 21st, 2013

Property Owners: Kevin Cooney & Jennifer Cooney

G.A. SMITH SURVEYING LTD.

ONTARIO LAND SURVEYOR
CARLETON PLACE, ONTARIO

(913) 253 - 6000
Fax: (913) 253 - 6001

DRAWN: R. W. CHECKED: G.A.E.
REFERENCE No.: 12-4125 (2)
REVISED: (2) REV. DATE: 19-09-13



RESUMÉ: Dr. HUGH WILLIAMSON, P.Eng.

QUALIFICATIONS: Ph.D. Mechanical Engineering, University of New South Wales, 1972
B.Sc. Mechanical Engineering, (with Distinction), University of Alberta, 1967
Member, Professional Engineers, Ontario
Member, Canadian Acoustical Association

KEY COMPETENCIES:

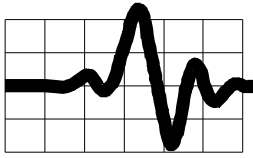
- Environmental noise and vibration assessments, Environmental Compliance Certificates. Noise assessment for land use planning
- Noise impact assessments for the Aggregates Industry.
- Architectural and building acoustics, acoustics of office spaces, meeting rooms, auditoriums and studios, noise and vibration control of building mechanical services.
- Industrial noise and vibration assessment and control.
- Noise and vibration aspects of Occupational Health and Safety (OH&S).

PROFESSIONAL EXPERIENCE:

Hugh Williamson is a professional engineer with many years of experience in the measurement, assessment, analysis and control of noise and vibration. Hugh Williamson Associates was incorporated in 1997 and provides consulting services in architectural, industrial and environmental acoustics and vibration. Dr. Williamson has many years of specialist experience in noise assessment for the aggregates industry in Ontario. Clients include aggregate producers, architects, engineering firms, industrial firms and government departments. Prior to establishing Hugh Williamson Associates, his career included extensive periods in industry as well as university level research and teaching. He is a former Director of the Acoustics and Vibration Unit at the Australian Defence Force Academy. He has published over 50 engineering and scientific papers and has been an invited speaker on noise and vibration at national and international conferences. He has more than 20 years of experience as a consultant.

CLIENT LIST:

Hugh Williamson Associates provides consulting services to a wide variety of clients. In the aggregates industry this includes: R. W. Tomlinson Limited, Miller Paving, Lafarge, Tackaberry Construction, Drain Brothers and Cavanagh Construction. Other clients include HOK Architects, Lalande & Doyle Architects, J. L. Richards, Goodkey Weedmark, PWGSC, National Arts Centre, National Research Council Canada.



Aggregates Industry Experience

Dr. Hugh Williamson has more than 15 years experience undertaking noise impact assessment for the aggregates industry in Ontario. Projects typically involve assessing the noise impacts of aggregate operations on nearby residential and rural properties. Noise impacts are assessed according to Ontario Ministry of Environment and Ministry of Natural Resources Guidelines and regulations. Some recent projects are listed below.

1. Miller Paving Limited. *Acoustical Study of the Expansion of the Braeside Quarry*
2. R. W. Tomlinson Limited. *Noise Impact Assessment of the Rideau Road Quarry*
3. Thomas Cavanagh Construction. *Noise Impact Assessment of Asphalt Plant at the Henderson Quarry*
4. Thomas Cavanagh Construction. *Noise Impact Assessment of Mobile Crushing Equipment*
5. Cruickshank Construction. *Noise assessment of the asphalt plant at Kemptville Quarry*
6. R. W. Tomlinson Limited. *Acoustical Study of the Proposed Brechin Quarry*
7. Upper Canada Minerals. *Acoustical Study of the Chocolate Limestone Quarry*
8. Lafarge Limited. *Acoustical Study of the Asphalt Plant at the Boyce Quarry*
9. George Tackaberry Construction. *Acoustical Assessment of the O'Reilly II Pit*
10. George Tackaberry Construction. *Acoustical Assessment of the Fox Pit*

Other Recent Environmental Noise Assessment Projects

1. Township of Greater Madawaska. Peer review of acoustical study of *Calabogie Motorsports Park*. Assisting the Township to develop suitable by-laws for the control of noise.
2. National Research Council Canada. Various projects for the assessment of community noise impacts and the control of noise from equipment and facilities.
3. Queensway Carleton Hospital. Noise impact assessment and advice on noise control. Assessment report for a Certificate of Approval for the hospital.

