


REPORT – 10010.02

**Alliston Aggregates Pit
Noise Impact Study**
Township of Adjala-Tosorontio
County of Simcoe

Prepared by:



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(original report 22 November 2011)

1 Introduction

Aercoustics Engineering Limited (AEL) has conducted a noise impact study for the proposed Alliston Aggregates Pit comprised of Part Lots 6 & 7, Concession 4, Township of Adjala-Tosorontio, County of Simcoe. It is located at the northwest corner of County Road 13 and Sideroad 5.

Figure 1 provides a site plan illustrating the aggregate pit area and the locations of local residences.

The purpose of this study was to provide noise control recommendations in order that the operation within the aggregate pit will satisfy the Ontario Ministry of the Environment (MOE) noise guidelines.

Sound level limits for the aggregate pit noise on the close residential receptors were first established. These were based on the noise guidelines of the MOE. Next the noise predictions were performed of the aggregate pit operations at these residential receptors. Where the predicted levels were found to exceed the MOE sound level limits, noise control measures were recommended to satisfy these limits.

2 Report Update

This is an updated report to replace the previously issued report and report addendum #1 listed below.

- a) Aercoustics report entitled “The potential impact of noise from aggregate extraction & processing at the proposed Alliston Aggregates pit”, dated November 22, 2011.
- a) Aercoustics letter entitled “Proposed Alliston Aggregates Pit, Noise Impact Study Report Addendum #1”, dated June 20, 2013

This updated report addresses the following changes since the issuance of the report addendum #1:

- 1) A change in extraction direction
The extraction operation will generally proceed from East to West in each of the three phases.
- 2) A change in the on-site haul route and updating the maximum hourly volume
The on-site truck haul route will travel from the entrance off of 5th Sideroad, along the pits south side and travel north-south along its west side. The maximum hourly truck traffic volume will be 42 trucks/hr (84 passes/hr).

3) An option to use a processing plant without an enclosure

The design of the operation, and noise controls, will allow for the option of using a processing plant with or without an enclosure.

The report also includes information that addresses questions or comments raised in the R.J. Burnside & Associates peer review in their memorandum dated March 16, 2015 as well as items discussed in a meeting to discuss the peer view items on May 22, 2015 at the Township of Adjala-Tosorontio office.

3 Description of the site and surrounding area

Figure 1 shows the proposed Alliston Aggregates Pit and surrounding area. The site is located on the west side of County Road 13 north of Sideroad 5. The site and surrounding lands are of essentially flat or gently rolling terrain.

There are several residences, single family dwellings, in the vicinity of the proposed pit. They are identified in Figure 1 as receptors R1-R12.

4 Non Noise Sensitive Receptors

There is one dwelling within the proposed licensed area which was not considered a noise sensitive receptor in this study. It is understood that if an aggregate licence is granted for this pit, the property including this dwelling will be owned by Alliston Aggregates.

For this dwelling which is associated with the pit, it is recommended that they;

- be occupied by people associated with the pit operations or who have entered into agreements with the pit operators;
- be left vacant; or
- implement mitigation to satisfy the MOE limits.

There is a building at 5545 Concession Road 4. It is located to the southwest of the proposed aggregate pit, to the south of receptor R10. This is the Alliston & District Humane Society shelter. It is not a residential dwelling. With this, this building as not considered a dwelling and as such was not considered noise sensitive.