

EXECUTIVE SUMMARY

HGC Engineering was retained by St. Marys Cement Inc. (Canada) to update the acoustic assessment of their facility in St. Marys, Ontario. The update is required to address recently implemented noise control measures at the facility and addition of several minor items of mechanical equipment. Further details are provided in Section 1.2.

HGC Engineering prepared the previous version of the Acoustic Assessment Report, dated January 15, 2015 [1], in support of an application to the Ontario Ministry of the Environment, Conservation and Parks (“MECP”) for an Environmental Compliance Approval with Limited Operational Flexibility. The MECP issued the Approval, number 4546-AQ9GMB, on August 31, 2017. This updated assessment has been prepared to fulfill condition 5.2 of the Approval to update the report annually so that it reflects the operations of the facility as of December 31 of the previous year. This update reflects the state of the facility as of December 31, 2020.

Sound level measurements were conducted at the facility on multiple occasions between 2011 and 2021, near each stationary source, and at neighbouring offsite points of reception. The source sound levels were used to develop an acoustical model of the facility in order to prepare a sound source inventory, and thereby determine the contribution of each individual source to the overall offsite sound levels. Acoustic assessment criteria were established in accordance with the sound level limits in MECP guideline NPC-300.

The measurements and analysis indicate that sound emissions of the facility may exceed MECP limits under a predictable worst-case hour of operation. A Noise Abatement Action Plan is presented herein, including detailed acoustical performance specifications and a timeline for the implementation of the noise control measures.