

Ministry of the Environment,
Conservation and Parks
*Drinking Water and Environmental
Compliance Division*

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Ministère de l'Environnement, de la
Protection de la nature et des Parcs
*Division de la conformité en matière
d'eau potable et d'environnement*

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March 19, 2019

Brad Allan
District Manager
Aurora District
Ministry of Natural Resources and Forestry
50 Bloomington Rd.
Aurora, ON L4G 0L8

RE: Meridian Brick Canada Ltd. – Aldershot East Quarry, Review of Noise and Dust Studies

Mr. Allan,

In 2018 the Ministry of the Environment Conservation and Parks (ministry) completed a review of the noise and dust studies prepared by the consultants for Meridian Brick Canada Ltd. (Meridian) in relation to the opening of the Aldershot East Quarry. The results of this review was shared with the Ministry of Natural Resources and Forestry (MNRF) in a letter dated March 16, 2018 and addressed to the MNRF Aurora District Manager Paul Heeney. The ministry's 2018 review indicated that due to a lack of information in both the noise and dust studies a complete review of the reports could not be conducted. The ministry shared its comments with Meridian. Subsequently the following revised reports were submitted for the ministry's consideration:

Pinchin Ltd. September 21, 2018. *Air Quality Assessment Report*

Pinchin Ltd. September 16, 2018. *Revised Report for a Short Term Predictive Ambient Air Quality Monitoring Program performed at the Aldershot East Quarry - October 2017*

SS Wilson Associates. January 10, 2019. *Report No. WA15-017, Revision 2, Detailed Environmental Noise Study – East Quarry Aldershot Quarries City of Burlington*

These reports were provided to the ministry's technical reviewers along with the reports submitted by the Tyandaga Environmental Coalition documenting their concerns. The ministry has concluded its review.

The ministry's central region technical support section reviewed the air related reports and the ministry's environmental assessment and permissions branch undertook a review of the noise report. Both reviewers concluded that the revised reports addressed the ministry's previous comments.

The air quality assessment report review concludes that the revised report conservatively predicted the maximum concentration of PM_{2.5}, PM₁₀, PM and crystalline silica. Predicted concentrations were found to be below the Local Air Quality Regulation (O. Reg. 419/05) standards.

The noise report review concludes that that the revised report was prepared in accordance with the ministry's noise assessment and reporting requirements. With the use of proposed controls, the quarrying operations were calculated to be in compliance with applicable noise limits.

In the revised reports, Meridian indicates it is committed to carrying out future monitoring programs to verify the results of the predictive modelling included in both the air and noise reports. Upon request from MNRF, MECP staff can provide technical assistance in the review of air quality and noise sampling methods and monitoring reports. Attached are the detailed technical reviews.

Feel free to contact me if you would like to discuss further.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tina Dufresne', written in a cursive style.

Tina Dufresne
District Manager
Halton-Peel District Office

**Ministry of the
Environment,
Conservation and
Parks**

**Ministère de
l'Environnement, de la
Protection de la nature et
des Parcs**



Environmental
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January 21, 2019

To: Neil Hannington
Issues Project Coordinator
Halton-Peel District Office

From: Header Merza
Senior Noise Engineer
Environmental Assessment and Permissions Branch

Re: **Noise Review Comments
East Quarry (Aldershot Quarries)
City of Burlington
Noise File No.: DS0001-19**

This office was requested to review the noise study report titled "Report No. WA15-017, Revision 2, Detailed Environmental Noise Study, East Quarry, Aldershot Quarries, City of Burlington" prepared by SS Wilson Associates, dated January 10, 2019 and signed by Hazem Gidamy, P.Eng., Brent Miller and Asad Rizwan.

The January 10, 2019 noise study report addressed the noise emissions from the future quarrying operations at the proposed east quarry. The report was prepared in accordance with ministry Publication NPC-233 and the quarrying operations noise emissions were calculated to be in compliance with the applicable noise limits, specified in Publication NPC-300, with the use of administrative and physical noise control measures.

Noise monitoring was recommended by SS Wilson for the quarrying operations in order to verify their compliance with the applicable noise limits. The noise monitoring should be conducted for the purpose of verifying the results of the predictive modelling included in the report.

The January 10, 2019 noise study report addresses the ministry's noise review comments made in the letters dated February 21, 2018 and January 4, 2019. We have no further comments to provide on this noise report.

We trust the above noise review would be of assistance to you.

If you have any questions, please contact Header Merza at (416)327-6575.



Header Merza, P.Eng.
Senior Noise Engineer



Christina Labarge, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

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February 7, 2019

To: Neil Hannington, Issues Project Coordinator

From: Amanda Graham, Air Quality Analyst

Subject: Meridian Brick Canada Ltd.
Air Quality Assessment Report, September 21, 2018; and
Revised Report for a Short Term Predictive Ambient Air Quality Monitoring
Program performed at the Aldershot Centre Quarry – October 2017,
September 16, 2018

Technical Support Section reviewed the Air Quality Assessment (December 2017) and Short Term Predictive Ambient Air Quality Monitoring Program (November 2017) reports prepared by Pinchin Ltd. for Meridian Brick Canada Ltd. Both reports have since been revised to address the ministry's comments provided in March, 2018.

The revised Air Quality Assessment conservatively predicted the maximum concentration of PM_{2.5}, PM₁₀, PM and crystalline silica based on expected emissions from the facility. These predicted concentrations were found to be below the ministry's Local Air Quality Regulation (O. Reg. 419/05) standards. The combined maximum predicted and background concentrations were compared against the ministry's Ambient Air Quality Criteria (AAQCs), which are desirable concentrations of a contaminant in air. Combined concentrations were below the AAQCs for PM_{2.5} and PM in all modelled scenarios and above the AAQCs for crystalline silica and PM₁₀ in some modelled scenarios. However, instances where combined concentrations were elevated above the AAQCs did not occur in the residential community area.

The Short Term Predictive Ambient Air Quality Monitoring Program undertaken by Meridian Brick Canada Ltd. consisted of three sampling stations that monitored PM_{2.5}, PM₁₀ and crystalline silica concentrations on four days in October, 2017. However, the ministry raised concerns on how the monitoring program was conducted in the comments provided in March 2018. Some of these concerns were also raised by the Tyandaga Environmental Coalition Inc. in their letter dated February 9, 2018. In response to the ministry's concerns and recommendations, Meridian Brick will conduct additional monitoring and develop a monitoring plan in consultation with the ministry.

Overall, the revised reports address the ministry's comments provided in March, 2018.

Should you have any questions or concerns, please do not hesitate to me at (416) 326-5745.

Sincerely,

Amanda Graham

Amanda Graham

Air Quality Analyst

Central Region, Technical Support

Ministry of the Environment, Conservation and Parks

Tel: 416-326-5745

cc. Paul Martin, Supervisor, Technical Support Section, CR, MECP