

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 3279-BN8QPX

Issue Date: April 20, 2020

Cambridge Asphalt Supply Inc.  
3000 Ament Line  
St. Jacobs, Ontario  
N0B 2N0

**Site Location:** 1902 Eagle Street North  
Cambridge City, Regional Municipality of Waterloo  
Ontario

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act ,  
R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:*

**Hot Mix Asphalt Plant**

one (1) permanent hot-mix asphalt plant, equipped with drum and batch mixers, having a maximum production rate of 280 tonnes per hour, 5,040 tonnes per day, and 350,000 tonnes per year, consisting of the following equipment and emission sources:

- one (1) hot mix asphalt dryer/mixer, equipped with a natural gas fired burner, having a maximum heat input of 154.038 million kilojoules per hour, with particulate emissions controlled by one (1) baghouse dust collector system, having a total of 931 square metres of Nomex filter bags, and a pulse jet cleaning mechanism, discharging into the air at a volumetric flow rate of 23.8 actual cubic metres per second at an approximate temperature of 150 degrees Celsius, through a stack, having an exit diameter of 1.3 metres, extending 25.0 metres above grade;
- four (4) liquid asphalt cement storage tanks, operating at the maximum temperature of 175 degrees Celsius (347 F), three (3) of the tanks having a maximum capacity of 46 tonnes each, and one (1) having a maximum capacity of 67 tonnes, equipped with one (1) natural gas- or no. 2 oil-fired hot oil heater, having a maximum heat input of 2,483,000 kilojoules per hour, discharging into the air at a maximum volumetric flow rate of 0.4 actual cubic metre per second through a stack, having an exit diameter of 0.4 metre, extending 7.9 metres above grade;
- three (3) hot-mix asphalt storage silos, each having a storage capacity of 180 tonnes;
- fugitive emissions resulting from the delivery, storage, and transfer of raw materials associated with hot mix asphalt operations.

## **Aggregate depot**

one (1) aggregate depot having a maximum delivery and shipping rate of 1,500 tonnes per day of reclaimed asphalt pavement and 1,500 tonnes per day of recycled concrete, consisting of the following equipment and emission sources:

- fugitive emissions resulting from the delivery, storage, and transfer of raw materials associated with aggregate depot operations.

## **Crushing Plant**

two (2) crushing plants, brought to the site on as-needed basis, with only one crushing plant in operation at any one time, used to crush either recycle concrete or recycle asphalt pavement, having a maximum processing rate of 1,500 tonnes per day, each plant consisting of the following equipment and emission sources:

- one (1) primary crusher with an associated diesel generator;
- one (1) screener;
- one (1) stacker;
- fugitive emissions resulting from the delivery, storage, and transfer of raw materials associated with the crushing and screening operations;

all in accordance with the application for an Environmental Compliance Approval (Air & Noise) submitted by Cambridge Asphalt Supply Inc., dated June 26, 2019, and signed by Jim Karageogos, Manager, Materials Division; Emission Summary and Dispersion Modeling Report prepared by BCX Environmental Consulting, dated July, 2019; the Acoustic Assessment Report dated November 6, 2019, and signed by Swetha Kulandaivelan and Corey Kinart, HGC Engineering, and additional information within the letters (e-mails) dated August 26, October 18, 30 and 31, November 5 and 6, 2019 all provided by Swetha Kulandaivelan and Corey Kinart, HGC Engineering; and all the information associated with the application.

*For the purpose of this environmental compliance approval, the following definitions apply:*

1. *"Acoustic Assessment Report"* means the report, prepared in accordance with *Publication NPC-233* submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility*. *"Acoustic Assessment Report"* also means the *Acoustic Assessment Report* dated November 6, 2019, and signed by Swetha Kulandaivelan and Corey Kinart, HGC Engineering;

2. "*Acoustic Audit*" means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the *Facility*, assessed to determine compliance with the Performance Limits for the *Facility* regarding noise emissions, completed in accordance with the procedures set in *Publication NPC-103* and reported in accordance with *Publication NPC-233*;
3. "*Acoustic Audit Report*" means a report presenting the results of an *Acoustic Audit*, prepared in accordance with *Publication NPC-233*;
4. "*Acoustical Consultant*" means a person currently active in the field of environmental acoustics and noise/vibration control, who is familiar with *Ministry* noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from a *Facility*;
5. "*Approval*" means this Environmental Compliance Approval, including the application and supporting documentation listed above.
6. "*Best Management Practices Plan*" means a document or a set of documents which describe measures to minimize dust emissions from the *Facility* and/or *Equipment*.
7. "*Company*" means Cambridge Asphalt Supply Inc. that is responsible for the construction or operation of the *Facility* and includes any successors and assigns in accordance with section 19 of the *EPA*.
8. "*Director*" means a person appointed by the Minister pursuant to section 5 of the *EPA*.
9. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located.
10. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended.
11. "*Equipment*" means the equipment and processes described in the *Company's* application, this *Approval* and in the supporting documentation referred to herein, to the extent approved by this *Approval*.
12. "*Facility*" means the entire operation located on the property where the *Equipment* is located.
13. "*Independent Acoustical Consultant*" means an *Acoustical Consultant* who is not representing the *Company* and was not involved in preparing the *Acoustic Assessment Report* or the design/implementation of *Noise Control Measures* for the *Facility* and/or *Equipment*. The *Independent Acoustical Consultant* shall not be retained by the *Acoustical Consultant* involved in the noise impact assessment or the design/implementation of *Noise Control Measures* for the *Facility* and/or

*Equipment;*

14. "*Manual*" means a document or a set of documents that provides written instructions to staff of the *Company*.
15. "*Ministry*" means the ministry of the government of Ontario responsible for the *EPA* and includes all officials, employees or other persons acting on its behalf.
16. "*Noise Control Measures*" means measures to reduce the noise emissions from the *Facility* and/or *Equipment* including, but not limited to, silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers. It also means the Noise Control Measures, as outlined in the *Acoustic Assessment Report* dated November 6, 2019, and signed by Swetha Kulandaivelan and Corey Kinart, HGC Engineering; and detailed in the Schedule "A" of this *Approval*.
17. "*Publication NPC-103*" means the Ministry Publication NPC-103 of the Model Municipal Noise Control By-Law, Final Report, August 1978, published by the Ministry as amended;
18. "*Publication NPC-233*" means the *Ministry* Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;
19. "*Publication NPC-300*" means the *Ministry* Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August 2013, as amended; and
20. "*Truck(s)*" means hot-mix asphalt truck(s), liquide asphalt truck(s), and/or aggregate truck(s).

*You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:*

**TERMS AND CONDITIONS**

**1. Noise Performance**

1. The *Company* shall:

- a. at all times operate the *Equipment/Facility* as presented in the *Acoustic Assessment Report* dated November 6, 2019, and signed by Swetha Kulandaivelan and Corey Kinart, HGC Engineering;
- b. implement the *Noise Control Measures*, as outlined in the *Acoustic Assessment Report* dated November 6, 2019, and signed by Swetha Kulandaivelan and Corey Kinart, HGC Engineering, and detailed in the

Schedule "A" of this *Approval*;

- c. ensure that any and all *Trucks* arrive at and depart from the *Facility* in accordance with the following:
  - i. limit *Trucks* arrivals and departures during the limit *Trucks* arrivals and departures during the hours of 7 a.m. to 11 p.m. in accordance with the following:
    - A. a maximum of twenty (20) hot-mix asphalt truck per sixty (60) minute period;
    - B. a maximum of twenty (20) aggregate trucks per sixty (60) minute period; and
    - C. a maximum of one (1) liquid asphalt trucks per sixty (60) minute period.
  - ii. limit *Trucks* arrivals and departures during the night-time hours of 11 p.m. to 7 a.m., in accordance with the following:
    - A. a maximum of ten (10) hot-mix asphalt truck per sixty (60) minute period;
    - B. a maximum of ten (10) aggregate trucks per sixty (60) minute period; and
    - C. a maximum of one (1) liquid asphalt trucks per sixty (60) minute period.
- d. ensure that the operations of the mobile crushing plants:
  - i. are limited to operation of only one (1) crushing plant (either to crush recycled concrete or recycled asphalt pavement) per sixty (60) minute period and only during the hours of 7 a.m. to 11 p.m.;
  - ii. are restricted to the locations north-east of the *Facility*, as depicted in Figure 4b of the *Acoustic Assessment Report*; and
  - iii. are conducted at the *Facility* property only if there are already constructed the stockpiles/barriers on the south sides of the respective crushing plants, as detailed in the Schedule "A" of this *Approval*.
- e. ensure that, after full implementation of the *Noise Control Measures*, the combined noise emissions from the *Facility* and the third-party crushing plant(s) comply at all times with the limits set out in *Ministry Publication NPC-300*; and
- f. ensure that the *Noise Control Measures* are properly maintained and continue to provide the acoustical performance outlined in the *Acoustic*

*Assessment Report*. comply with the limits set out in *Publication NPC-300*.

## **2. Operation and Maintenance Manual**

1. The *Company* shall ensure that the *Equipment* is properly operated and maintained at all times. The *Company* shall:
  - a. prepare, not later than three (3) months after the date of this *Approval*, and update, as necessary, a *Manual* outlining the operating procedures and a maintenance program for the *Equipment*, including:
    - i. routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the *Equipment* suppliers;
    - ii. emergency procedures; including spill clean-up procedures;
    - iii. procedures for any record keeping activities relating to operation and maintenance of the *Equipment*;
    - iv. the frequency of inspection and replacement of the filter material in the *Equipment*;
    - v. all appropriate measures to minimize dust and odorous emissions from all potential sources; and
    - vi. procedures for recording and responding to environmental complaints relating to operation of the *Facility*.
  - b. implement the recommendations of the *Manual*;
  - c. prepare and implement procedures to monitor and keep records of the temperatures of the asphalt as it leaves the mixing process; and
  - d. ensure that the liquid asphalt cement storage tanks and hot mix asphalt storage silos do not operate above the maximum operating temperatures.

## **3. Fugitive Dust Control**

1. The *Company* shall prepare, not later than three (3) months after the date of this *Approval*, and update, as necessary, a *Best Management Practices Plan* for the control of fugitive dust emissions. This *Best Management Practices Plan* shall include, but not be limited to:
  - a. identification of the main sources of fugitive dust emissions such as:
    - i. on-site traffic;
    - ii. paved roads/areas;
    - iii. unpaved roads/areas;

- iv. material stock piles;
  - v. loading/unloading areas and loading/unloading techniques;
  - vi. material spills;
  - vii. material conveyance systems;
  - viii. exposed openings in process and storage buildings; and
  - ix. general work areas.
- b. potential causes for high dust emissions and opacity resulting from these sources;
  - c. preventative and control measures in place or under development to minimize the likelihood of high dust emissions and opacity from the sources of fugitive dust emissions identified above. Details of the preventative and control measures shall include:
    - i. a description of the control equipment to be installed;
    - ii. a description of the preventative procedures to be implemented; and/or
    - iii. the frequency of occurrence of periodic preventative activities, including material application rates, as applicable.
  - d. an implementation schedule for the *Best Management Practices Plan*, including training of *Facility* personnel;
  - e. inspection and maintenance procedures and monitoring initiatives to ensure effective implementation of the preventative and control measures; and
  - f. a list of all *Ministry* comments received, if any, on the development of the *Best Management Practices Plan*, and a description of how each *Ministry* comment was addressed in the *Best Management Practices Plan*.
2. The *Company* shall implement the *Best Management Practices Plan* for the control of fugitive dust emissions to provide effective dust suppression measures to any potential sources of fugitive dust emissions resulting from the operation of the *Facility*.

#### **4. Documentation Requirements**

- 1. The *Company* shall record, in a log book, each time a specific preventative and control measure described in the *Best Management Practices Plan* is implemented. The *Company* shall record, as a minimum:
  - a. the date when each emission control measure is installed, including a

- description of the control measure;
- b. the date when each new preventative measure or operating procedure to minimize emissions is implemented, including a description of the preventative measure or operating procedure; and
- c. the date, time of commencement, and time of completion of each periodic activity conducted to minimize emissions, including a description of the preventative measure/procedure and the name of the individual performing the periodic activity.

## **5. Record Retention**

1. The *Company* shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the recording activities required by this *Approval*, and make these records available for review by staff of the *Ministry* upon request. The *Company* shall retain:
  - a. all records on the maintenance, repair and inspection of the *Equipment*;
  - b. the log book which contains all records on the preventative and control measures implemented for each source of fugitive dust emission identified in the *Best Management Practices Plan*;
  - c. all records on the environmental complaints; including:
    - i. a description, time, date and location of each incident;
    - ii. wind direction and other weather conditions at the time of the incident;
    - iii. the name(s) of *Company* personnel responsible for handling the incident;
    - iv. the cause of the incident;
    - v. the *Company* response to the incident; and
    - vi. a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future, and the outcome of the measures taken.

## **6. Notice of Complaints**

1. The *Company* shall notify the *District Manager*, in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:
  - a. a description of the nature of the complaint;
  - b. the time, date and location of the incident;



- c. the wind direction and other weather conditions at the time of the incident; and
- d. the name(s) of *Company* personnel responsible for handling the incident.

## **7. ACOUSTIC AUDIT**

1. The *Company* shall carry out *Acoustic Audit* measurements on the actual noise emissions due to the operation of the *Facility*. The *Company*:
  - a. shall carry out *Acoustic Audit* measurements in accordance with the procedures in *Ministry Publication NPC-103*; and
  - b. shall submit an *Acoustic Audit Report* on the results of the *Acoustic Audit*, prepared by an *Independent Acoustical Consultant*, in accordance with the requirements of *Ministry Publication NPC-233*, to the *District Manager* and the *Director*, not later than eighteen (18) after the date of this *Approval*.
2. The *Director*:
  - a. may not accept the results of the *Acoustic Audit* if the requirements of *Ministry Publication NPC-233* were not followed: and
  - b. may require the *Company* to repeat the *Acoustic Audit* if the results of the *Acoustic Audit* are found unacceptable to the *Director*.

## **SCHEDULE A**

### **Noise Control Measures**

#### **1. Crushing Plants Stockpiles**

##### **1. Recycled Paving Asphalt Crushing Plant Stockpile**

Receptors to the south should be shielded from the recycled paving asphalt crushing plant noise impact by the stockpile. The stockpile shall have a minimum height of 9 metres and a minimum length of 45 metres, and be located as depicted in Figure 4b of the *Acoustic Assessment Report*. The peak of the stockpile shall be located no more than 15 metres from the center of the crushing plant. The stockpile shall be continuous without holes, gaps and other penetrations, and having surface mass of at least 20 kilograms per square metre.

##### **2. Recycled Concrete Crushing Plant Stockpile**

Receptors to the south should be shielded from the recycled concrete crushing plant noise impact by the stockpile. The stockpile shall have a minimum height of 8 metres and a minimum length of 45 metres, and be

located as depicted in Figure 4b of the *Acoustic Assessment Report*. The peak of the stockpile shall be located no more than 15 metres from the center of the crushing plant. The stockpile shall be continuous without holes, gaps and other penetrations, and having surface mass of at least 20 kilograms per square metre.

**The Company shall implement above noted Noise Control Measures prior commencement of operation(s) of the of the respective crushing plants.**

## **2. Baghouse Fan Barrier**

Receptors to the south should be shielded from the baghouse fan noise impact by the barrier. The barrier shall have a minimum height of 2.5 metres and a minimum length of 3 metres, and be located immediately south of the baghouse fan, as depicted in Figure 4a of the *Acoustic Assessment Report*. The barrier shall be continuous without holes, gaps and other penetrations, and having surface mass of at least 20 kilograms per square metre.

**The Company shall implement above noted Noise Control Measure not later than six (6) months from the date of this Approval.**

## **3. Burner System Replacement**

The existing burner system will be replaced with a new system (including the burner itself and the blower fan), with an overall sound power level of no greater than 106 dBA, including 5 dB tonal penalty.

**The Company shall implement above noted Noise Control Measure not later than twelve (12) months from the date of this Approval .**

*The reasons for the imposition of these terms and conditions are as follows:*

1. Condition No. 1 is included to provide the minimum performance requirement considered necessary to prevent an adverse effect resulting from the operation of the *Facility*.
2. Conditions No. 2 and 3 are included to emphasize that the *Equipment* must be maintained and operated according to a procedure that will result in compliance with the *EPA*, the Regulations and this *Approval*.
3. Conditions No. 4 and 5 are included to require the *Company* to keep records and to provide information to staff of the *Ministry* so that compliance with the *EPA*, the Regulations and this *Approval* can be verified.
4. Condition No. 6 is included to require the *Company* to notify staff of the *Ministry* so that compliance with the *EPA*, the Regulations and this *Approval* can be verified.
5. Condition No. 7.1 is included to require the *Company* to gather accurate

information so that the environmental impact and subsequent compliance with the *EPA*, the regulations and this *Approval* can be verified.

6. Condition No. 7.2 is included to ensure that the *Acoustic Audit* is carried out in accordance with procedures set in the *Ministry's Noise Guidelines*.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 8-2239-89-958 issued on December 15, 1995.**

*In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:*

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

*Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.*

*The Notice should also include:*

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

*And the Notice should be signed and dated by the appellant.*

*This Notice must be served upon:*

The Secretary\*  
Environmental Review Tribunal  
655 Bay Street, Suite 1500  
Toronto, Ontario  
M5G 1E5

AND

The Minister of the Environment,  
Conservation and Parks  
777 Bay Street, 5th Floor  
Toronto, Ontario  
M7A 2J3

AND

The Director appointed for the purposes of  
Part II.1 of the Environmental Protection Act  
Ministry of the Environment, Conservation  
and Parks  
135 St. Clair Avenue West, 1st Floor

**\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)**

*This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.*

*The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.*

DATED AT TORONTO this 20th day of April, 2020

Rudolf Wan, P.Eng.  
Director  
appointed for the purposes of Part  
II.1 of the *Environmental  
Protection Act*

JL/  
c: District Manager, MECP Guelph District Office  
Megan Ostronic, BCX Environmental Consulting