

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 6497-BKVH9S

Issue Date: November 4, 2020

Atlantic Packaging Products Ltd.
111 Progress Avenue
Scarborough, Ontario
M1P 2Y9

Site Location: 1900 Thickson Road South
Whitby Town, Regional Municipality of Durham
L1N 9E1

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:

Description Section

A liner paper manufacturing facility, consisting of the following processes and support units:

- paper mill;
- waste water treatment operations, with treated effluent discharging to sanitary sewers;
- *Large Natural Gas-fired Boiler #1*, equipped with a Low-NOx Burner, with maximum heat input rating of approximately 212 million kilojoules per hour discharging to the air through a stack, having an exit diameter of 1.37 metres and extending 22.86 metres above grade;
- *Large Multi Fuel-fired Boiler #2*, equipped with a Low-NOx Burner, with maximum heat input rating of approximately 307 million kilojoules per hour discharging to the air through a stack, having an exit diameter of 1.72 metres and extending 30.5 metres above grade;
- *Fluidized Bed Boiler*, complete with steam generator and baghouse dust collector, equipped with natural gas fired preheat and over-bed burners, having a total gas heat input of 35 million kilojoules per hour, combusting a maximum of 11.7 tonnes of *Paper Fibre Biosolids* per hour, discharging to the air through the *Fluidized Bed Boiler* baghouse stack, having an exit diameter of 1.27 metres and extending 22.9 metres above grade;

including the *Equipment* and any other ancillary and support processes and activities, operating at a *Facility Production Limit* of up to **870,000 tonnes per year of paper** discharging to the air as described in the *Original ESDM Report*.

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

1. "*ACB list*" means the document entitled "Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants", as amended from time to time and published by the *Ministry* and available on a Government website;
2. "*Acceptable Point of Impingement Concentration*" means a concentration accepted by the *Ministry* as not likely to cause an adverse effect for a *Compound of Concern* that,
 - a. is not identified in the *ACB list*, or
 - b. is identified in the *ACB list* as belonging to the category "Benchmark 2" and has a concentration at a *Point of Impingement* that exceeds the concentration set out for the contaminant in that document.
With respect to the *Original ESDM Report*, the *Acceptable Point of Impingement Concentration* for a *Compound of Concern* mentioned above is the concentration set out in the *Original ESDM Report*;
3. "*Approval*" means this entire Environmental Compliance Approval and any *Schedules* to it.;
4. "*Basic Comprehensive User Guide*" means the *Ministry* document titled "Basic Comprehensive Certificates of Approval (Air) User Guide" dated March 2011, as amended;
5. "*Biogas Flare*" means the flare with the maximum biogas burning capacity of 807 cubic metres per hour as described in the *ESDM Report*, this *Approval* and in the *Supporting Documentation* referred to herein and any other equipment or processes;
6. "*CEM System*" means means the continuous monitoring and recording system used to monitor and record the temperature of the *Biogas Flare* described in this *Approval*, to the extent approved by this *Approval*;
7. "*Company*" means Atlantic Packaging Products Ltd. 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. "*Compound of Concern*" means a contaminant described in paragraph 4 subsection 26 (1) of *O. Reg. 419/05*, namely, a contaminant that is discharged from the *Facility* in an amount that is not negligible;
9. "*Description Section*" means the section on page one of this *Approval* describing the *Company's* operations and the *Equipment* located at the *Facility* and

- specifying the *Facility Production Limit* for the *Facility*;
10. "*Director*" means a person appointed for the purpose of section 20.3 of the *EPA* by the *Minister* pursuant to section 5 of the *EPA*;
 11. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located;
 12. "*Emission Summary Table*" means a table described in paragraph 14 of subsection 26 (1) of *O. Reg. 419/05*;
 13. "*Environmental Assessment Act*" means the Environmental Assessment Act, R.S.O. 1990, c.E.18, as amended;
 14. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
 15. "*Equipment*" means equipment or processes described in the *ESDM Report*, this *Approval* and in the *Schedules* referred to herein and any other equipment or processes;
 16. "*Equipment with Specific Operational Limits*" means the *Fluidized Bed Boiler*, *Large Natural Gas-fired Boiler #1* and *Large Multi Fuel-fired Boiler #2* and any *Equipment* related to the thermal oxidation of waste or waste derived fuels, fume incinerators or any other *Equipment* that is specifically referenced in any published *Ministry* document that outlines specific operational guidance that must be considered by the *Director* in issuing an *Approval*;
 17. "*ESDM Report*" means the most current Emission Summary and Dispersion Modelling Report that describes the *Facility*. The *ESDM Report* is based on the *Original ESDM Report* and is updated after the issuance of this *Approval* in accordance with section 26 of *O. Reg. 419/05* and the *Procedure Document*;
 18. "*Facility*" means the entire operation located on the property where the *Equipment* is located;
 19. "*Facility Production Limit*" means the production limit placed by the *Director* on the main product(s) or raw materials used by the *Facility*;
 20. "*Fluidized Bed Boiler*" means the equipment used to combust *Paper Fibre Biosolids* generated on site as described in the *ESDM Report*, this *Approval* and in the *Supporting Documentation* referred to herein and any other equipment or processes;
 21. "*Large Natural Gas-fired Boiler #1*" means the boiler with maximum heat input rating of 212 million kilojoules per hour, as described in the *ESDM Report*, this *Approval* and in the *Supporting Documentation* referred to herein and any other equipment or processes;
 22. "*Large Multi Fuel-fired Boiler #2*" means the boiler with maximum heat input rating

of 307 million kilojoules per hour, as described in the *ESDM Report*, this *Approval* and in the *Supporting Documentation* referred to herein and any other equipment or processes;

23. "Log" means a document that contains a record of each change that is required to be made to the *ESDM Report*, including the date on which the change occurred. For example, a record would have to be made of a more accurate emission rate for a source of contaminant, more accurate meteorological data, a more accurate value of a parameter that is related to a source of contaminant, a change to a *Point of Impingement* and all changes to information associated with a *Modification* to the *Facility* that satisfies Condition 2;
24. "Manager" means the Manager, Technology Standards Section, Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Technology Standards Section, Standards Development Branch, as those duties relate to the conditions of this *Approval*;"Minister" means the Minister of the Environment, Conservation and Parks or such other member of the Executive Council as may be assigned the administration of the *EPA* under the Executive Council Act;
25. "Minister" means the Minister of the Environment, Conservation and Parks or such other member of the Executive Council as may be assigned the administration of the *EPA* under the Executive Council Act;
26. "Ministry" means the ministry of the *Minister*;
27. "Modification" means any construction, alteration, extension or replacement of any plant, structure, equipment, apparatus, mechanism or thing, or alteration of a process or rate of production at the *Facility* that may discharge or alter the rate or manner of discharge of a *Compound of Concern* to the air or discharge or alter noise or vibration emissions from the *Facility*;
28. "Noise Screening Documents" means the completed *Primary Noise Screening Method*, with supporting information and documentation, as updated in accordance with Condition 5 of this *Approval*;
29. "Odour Best Management Practices Plan" means a document or a set of documents which describe measures to minimize odour emissions from the *Facility* and/or *Equipment*;
30. "O. Reg. 419/05" means Ontario Regulation 419/05, Air Pollution – Local Air Quality, as amended;
31. "Original *ESDM Report*" means the Emission Summary and Dispersion Modelling Report which was prepared in accordance with section 26 of *O. Reg. 419/05* and the *Procedure Document* by GHD and dated October 23, 2020 submitted in support of the application, and includes any changes to the report made up to the

- date of issuance of this *Approval*;
32. "*Paper Fibre Biosolids*" means the wet fuel at 60% moisture content that is used as an input into the *Fluidized Bed Boiler* and includes primary and secondary clarifier rejects.
 33. "*Point of Impingement*" has the same meaning as in section 2 of *O. Reg. 419/05*;
 34. "*Pre-Test Plan*" means a plan for the *Source Testing* including the information required in Section 5 of the *Source Testing Code*;
 35. "*Primary Noise Screening Method*" means the *Ministry* Primary Noise Screening Method form as described in the "*Primary Noise Screening Method Guide*", January 31, 2017, as amended;
 36. "*Procedure Document*" means *Ministry* guidance document titled "*Procedure for Preparing an Emission Summary and Dispersion Modelling Report*" dated February 2017, as amended;
 37. "*Processes with Significant Environmental Aspects*" means the *Equipment* which, during regular operation, would discharge one or more contaminants into the air in an amount which is not considered as negligible in accordance with section 26 (1) 4 of *O. Reg. 419/05* and the *Procedure Document*;
 38. "*Publication NPC-207*" means the *Ministry* draft technical publication "*Impulse Vibration in Residential Buildings*", November 1983, supplementing the Model Municipal Noise Control By-Law, Final Report, published by the *Ministry*, August 1978, as amended;
 39. "*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;
 40. "*Schedules*" means the following schedules attached to this *Approval* and forming part of this *Approval* namely:
 - Schedule A - Supporting Documentation;
 - Schedule B - *Targeted Source(s)* and *Test Contaminants* for *Source Testing*;
 - Schedule C - *Source Testing* Procedure;
 - Schedule D - Continuous Temperature Monitor and Data Recorder; and,
 - Schedule E - *Odour Best Management Practices Plan*.
 41. "*Source Testing*" means sampling and testing to measure emissions resulting from operating the *Targeted Sources* under conditions which yield the worst case emissions within the approved operating range of the *Targeted Sources* which satisfies paragraph 1 of subsection 11(1) of *O. Reg. 419/05*;
 42. "*Source Testing Code*" means the Ontario Source Testing Code, dated June

2010, prepared by the *Ministry*, as amended;

43. "*Targeted Source(s)*" means the source(s) listed in Schedule B;
44. "*Test Contaminants*" means the contaminants listed in Schedule B;
45. "*Toxicologist*" means a qualified professional currently active in the field of risk assessment and toxicology that has a combination of formal university education, training and experience necessary to assess contaminants; and
46. "*Written Summary Form*" means the electronic questionnaire form, available on the *Ministry* website, and supporting documentation, that documents the activities undertaken at the *Facility* in the previous calendar year.

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. GENERAL

1. Except as otherwise provided by this *Approval*, the *Facility* shall be designed, developed, built, operated and maintained in accordance with the terms and conditions of this *Approval* and in accordance with the following *Schedules* attached hereto:
 - Schedule A - Supporting Documentation;
 - Schedule B - *Targeted Source(s)* and *Test Contaminants* for *Source Testing*;
 - Schedule C - *Source Testing* Procedure;
 - Schedule D - Continuous Temperature Monitor and Data Recorder; and,
 - Schedule E - *Odour Best Management Practices Plan*.

2. LIMITED OPERATIONAL FLEXIBILITY

1. Pursuant to section 20.6 (1) of the *EPA* and subject to Conditions 2.2 and 2.3 of this *Approval*, future construction, alterations, extensions or replacements are approved in this *Approval* if the future construction, alterations, extensions or replacements are *Modifications* to the *Facility* that:
 - a. are within the scope of the operations of the *Facility* as described in the *Description Section* of this *Approval*;
 - b. do not result in an increase of the *Facility Production Limit* above the level specified in the *Description Section* of this *Approval*; and
 - c. result in compliance with the performance limits as specified in

Condition 4.

2. Condition 2.1 does not apply to,
 - a. the addition of any new *Equipment with Specific Operational Limits* or to the *Modification* of any existing *Equipment with Specific Operational Limits* at the *Facility*; or
 - b. *Modifications* to the *Facility* that would be subject to the *Environmental Assessment Act*.
3. Condition 2.1 of this *Approval* shall expire ten (10) years from the date of this *Approval*, unless this *Approval* is revoked prior to the expiry date. The *Company* may apply for renewal of Condition 2.1 of this *Approval* by including an *ESDM Report* that describes the *Facility* as of the date of the renewal application.

3. REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION

1. Prior to making a *Modification* to the *Facility* that satisfies Condition 2.1.a and 2.1.b, the *Company* shall prepare a proposed update to the *ESDM Report* to reflect the proposed *Modification*.
2. The *Company* shall request approval of an *Acceptable Point of Impingement Concentration* for a *Compound of Concern* if the *Compound of Concern* is not identified in the *ACB list* as belonging to the category "Benchmark 1" and a proposed update to an *ESDM Report* indicates that one of the following changes with respect to the concentration of the *Compound of Concern* may occur:
 - a. The *Compound of Concern* was not a *Compound of Concern* in the previous version of the *ESDM Report* and
 - i. the concentration of the *Compound of Concern* exceeds the concentration set out for the contaminant in the *ACB list*; or
 - ii. the *Compound of Concern* is not identified in the *ACB list*; or
 - b. The concentration of the *Compound of Concern* in the updated *ESDM Report* exceeds the higher of,
 - i. the most recent *Acceptable Point of Impingement Concentration*, and
 - ii. the concentration set out for the contaminant in the *ACB list*, if the contaminant is identified in that document.
3. The request required by Condition 3.2 shall propose a concentration for the *Compound of Concern* and shall contain an assessment, performed by a

Toxicologist, of the likelihood of the proposed concentration causing an adverse effect at *Points of Impingement*.

4. If the request required by Condition 3.2 is a result of a proposed *Modification* described in Condition 3.1, the *Company* shall submit the request, in writing, to the *Director* at least 30 days prior to commencing to make the *Modification*. The *Director* shall provide written confirmation of receipt of this request to the *Company*.
5. If a request is required to be made under Condition 3.2 in respect of a proposed *Modification* described in Condition 3.1, the *Company* shall not make the *Modification* mentioned in Condition 3.1 unless the request is approved in writing by the *Director*.
6. If the *Director* notifies the *Company* in writing that the *Director* does not approve the request, the *Company* shall,
 - a. revise and resubmit the request; or
 - b. notify the *Director* that it will not be making the *Modification*.
7. The re-submission mentioned in Condition 3.6 shall be deemed a new submission under Condition 3.2.
8. If the *Director* approves the request, the *Company* shall update the *ESDM Report* to reflect the *Modification*.
9. Condition 3 does not apply if Condition 2.1 has expired.

4. PERFORMANCE LIMITS

1. Subject to Condition 4.2, the *Company* shall not discharge or cause or permit the discharge of a *Compound of Concern* into the air if,
 - a. the *Compound of Concern* is identified in the *ACB list* as belonging to the category "Benchmark 1" and the discharge results in the concentration at a *Point of Impingement* exceeding the Benchmark 1 concentration; or
 - b. the *Compound of Concern* is not identified in the *ACB list* as belonging to the category "Benchmark 1" and the discharge results in the concentration at a *Point of Impingement* exceeding the higher of,
 - i. if an *Acceptable Point of Impingement Concentration* exists, the most recent *Acceptable Point of Impingement Concentration*, and
 - ii. the concentration set out for the contaminant in the *ACB list*, if the contaminant is identified in that document.
2. Condition 4.1 does not apply if the benchmark set out in the *ACB list* has a 10-minute averaging period and no ambient monitor indicates an exceedance

at a *Point of Impingement* where human activities regularly occur at a time when those activities regularly occur.

3. The *Company* shall, at all times, ensure that the noise emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-300*.
4. The *Company* shall, at all times, ensure that the vibration emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-207*.
5. The *Company* shall operate any *Equipment with Specific Operational Limits* approved by this *Approval* in accordance with the *Original ESDM Report*.
6. The *Company* shall operate the *Biogas Flare* in such a manner that a minimum temperature, as recorded by the *CEM System*, shall be 527 degrees Celsius at a point representing a minimum retention time of 2.4 second when biogas incineration is in progress.

5. DOCUMENTATION REQUIREMENTS

1. The *Company* shall maintain an up-to-date *Log*.
2. No later than March 31 in each year, the *Company* shall update the *ESDM Report* in accordance with section 26 of *O. Reg. 419/05* and shall update the *Noise Screening Documents* so that the information in the reports is accurate as of December 31 in the previous year.
3. The *Company* shall make the *Emission Summary Table* (see section 27 of *O. Reg. 419/05*) and the *Noise Screening Documents* available for examination by any person, without charge, by posting it on the Internet or by making it available during regular business hours at the *Facility*.
4. The *Company* shall, within three (3) months after the expiry of Condition 2.1 of this *Approval*, update the *ESDM Report* and the *Noise Screening Documents* such that the information in the reports is accurate as of the date that Condition 2.1 of this *Approval* expired.
5. Conditions 5.1 and 5.2 do not apply if Condition 2.1 has expired.

6. REPORTING REQUIREMENTS

1. Subject to Condition 6.2, the *Company* shall provide the *Director* no later than June 30 of each year, a *Written Summary Form* to be submitted through the *Ministry's* website that shall include the following:
 - a. a declaration of whether the *Facility* was in compliance with section 9 of the *EPA*, *O. Reg. 419/05* and the conditions of this *Approval*;
 - b. a summary of each *Modification* satisfying Condition 2.1.a and 2.1.b that took place in the previous calendar year that resulted in a change in the previously calculated concentration at a *Point of Impingement* for any

Compound of Concern.

2. Condition 6.1 does not apply if Condition 2.1 has expired.

7. OPERATION AND MAINTENANCE

1. The *Company* shall prepare and implement, not later than three (3) months from the date of this *Approval*, operating procedures and maintenance programs for all *Processes with Significant Environmental Aspects*, which shall specify as a minimum:
 - a. frequency of inspections and scheduled preventative maintenance;
 - b. procedures to prevent upset conditions;
 - c. procedures to minimize all fugitive emissions;
 - d. procedures to prevent and/or minimize odorous emissions;
 - e. procedures to prevent and/or minimize noise emissions; and
 - f. procedures for record keeping activities relating to the operation and maintenance programs.
2. The *Company* shall ensure that all *Processes with Significant Environmental Aspects* are operated and maintained in accordance with this *Approval*, the operating procedures and maintenance programs.

8. ODOUR BEST MANAGEMENT PRACTICES PLAN

1. The *Company* shall prepare an *Odour Best Management Practices Plan* in accordance with the requirements outlined in Schedule E of this *Approval*.

9. SOURCE TESTING

1. The *Company* shall:
 - a. Conduct *Source Testing*, following the *Source Testing Procedure* outlined in Schedule C to determine the emission rates of the *Test Contaminants* from the *Targeted Source(s)* in Schedule B no later than August 31, 2021;
 - b. Repeat the *Source Testing* every four (4) years thereafter.

10. CONTINUOUS MONITORING

1. The *Company* shall install, conduct and maintain a program to continuously monitor the concentration of oxygen and carbon monoxide in the undiluted gas emitted from the *Fluidized Bed Boiler*, and the temperature of the hot combustion gases in the *Fluidized Bed Boiler*.
2. The Continuous Monitoring System shall be equipped with continuous recording devices and shall comply with the requirements established in

consultation with and approval by the *Manager*.

3. The *Company* shall operate the Continuous Monitoring System according to a detailed monitoring plan, complete with specifications for the Continuous Monitoring System and continuous recording devices, along with the verification method for demonstrating compliance with the temperature requirement for the hot combustion gases using the monitoring data, as finalized in consultation with the *Manager*.
4. The *Company* shall install and maintain operational a *CEM System* to continuously monitor and record the temperature in the combustion chamber of the *Biogas Flare*, when the *Biogas Flare* is in operation. The continuous temperature monitoring and recording system shall comply with the requirements outlined in Schedule D of this *Approval*.

11. PERFORMANCE

1. The *Company* shall ensure that the *Fluidized Bed Boiler* is operated to comply with the following performance requirements:
 - a. The temperature of the hot combustion gases in the *Fluidized Bed Boiler*, as verified by the continuous temperature monitoring system and other monitored process parameters, shall be demonstrated to reach at least 800 degrees Celsius with a residence time of 1 second, at all times.
 - b. The concentration of oxygen in the undiluted gas emitted from the combustion chamber of the *Fluidized Bed Boiler* shall not be less than 4 per cent by volume on a 3-hour rolling average and dry basis.
 - c. The concentration of carbon monoxide in the undiluted gas emitted from the *Fluidized Bed Boiler* is not greater than 400 parts per million on a dry basis, normalized to 11 per cent oxygen at a reference temperature of 25 degrees Celsius and a reference pressure of 101.3 kilopascals, 24-hour rolling averaging.
 - d. The in-stack concentration of total suspended particulate matter in the undiluted gas emitted from the baghouse dust collector is not greater than 25 milligram per cubic metre, on a dry basis, normalized to 11 per cent oxygen at a reference temperature of 25 degrees Celsius and a reference pressure of 101.3 kilopascals.
 - e. Only *Paper Fibre Biosolids* as defined by this *Approval* is used as fuel in the *Fluidized Bed Boiler*.
 - f. Requirements in Conditions 11.1.a, 11.1.b and 11.1.c do not apply during the following periods:

- i. the Start-up and Shut-down periods of the *Fluidized Bed Boiler* if,
 - A. Shut-down does not last for more than 6 hours;
 - B. Start-up does not last for more than 24 hours; and
 - C. Start-up or Shut-down is conducted according to a written plan that minimizes discharges into the air during the period of start-up or shut-down.

12. BI-ANNUAL TUNE-UP

1. The *Company* shall conduct, within two (2) years of the commencement of the operation of the *Fluidized Bed Boiler*, and repeat every two (2) years thereafter, a tune-up of the *Fluidized Bed Boiler* to assist in achieving effective combustion. The tune-up shall include but not be limited to:
 - a. Physical inspection of the following:
 - i. Fuel handling equipment
 - ii. Fuel distribution equipment
 - iii. Combustion air system
 - iv. Air measurement devices
 - v. Grates or burners
 - b. Review of Equipment performance, including:
 - i. Carbon monoxide and oxygen data
 - ii. Airflow data
 - iii. Air to fuel ratio data and verify operating within design criteria
 - iv. Calibration data and performance of the continuous monitoring system
 - c. Conduct combustion tests, including:
 - i. Visual observation of combustion
 - ii. Monitor and adjust excess air ratio
 - iii. Monitor oxygen and carbon monoxide data
2. A report shall be prepared for each tune-up, retained for a minimum of five (5) years after its creation, and made available for review by the *Ministry* upon request.

13. SUMMARY REPORTS

1. The *Company* shall prepare, once every two (2) years, a Summary Report to summarize the performance and monitoring requirements of the *Fluidized*

Bed Boiler as included in this *Approval*. Each Summary Report shall include:

- a. For each parameter listed in this *Approval* with continuous monitoring requirement, the following statistical information:
 - i. The maximum measurement taken over the two-year period;
 - ii. The minimum measurement taken over the two-year period;
 - iii. The average measurement taken over the two-year period.
- b. A record of all notices required to be given under Condition 14 during the two-year period.
- c. The dates during the two-year period when Start-up or Shut-down of the *Fluidized Bed Boiler* occurred.
- d. For each pollution control device associated with the *Fluidized Bed Boiler*, the dates during the two-year period when the device did not operate.
- e. A record of the results from the bi-annual tune-up required under Condition 12 of this *Approval*.

14. COMPLAINTS RECORDING AND REPORTING

1. If at any time, the *Company* receives an environmental complaint from the public regarding the operation of the *Equipment* approved by this *Approval*, the *Company* shall take the following steps:
 - a. Record and number each complaint, either electronically or in a log book. The record shall include the following information: the time and date of the complaint and incident to which the complaint relates, the nature of the complaint, wind direction at the time and date of the incident to which the complaint relates and, if known, the address of the complainant.
 - b. Notify the *District Manager* of the complaint within two (2) business days after the complaint is received, or in a manner acceptable to the *District Manager*.
 - c. Initiate appropriate steps to determine all possible causes of the complaint, and take the necessary actions to appropriately deal with the cause of the subject matter of the complaint.
 - d. Complete and retain on-site a report written within one (1) week of the complaint date. The report shall list the actions taken to appropriately deal with the cause of the complaint and set out steps to be taken to avoid the recurrence of similar incidents.

15. RECORD KEEPING REQUIREMENTS

1. Any information requested by any employee in or agent of the *Ministry* concerning the *Facility* and its operation under this *Approval*, including, but not limited to, any records required to be kept by this *Approval*, shall be provided to the employee in or agent of the *Ministry*, upon request, in a timely manner.
2. Unless otherwise specified in this *Approval*, the *Company* shall retain, for a minimum of five (5) years from the date of their creation all reports, records and information described in this *Approval*, including,
 - a. a copy of the *Original ESDM Report* and each updated version;
 - b. supporting information used in the emission rate calculations performed in the *ESDM Reports*;
 - c. the records in the *Log*;
 - d. copies of each *Written Summary Form* provided to the *Ministry* under Condition 6.1 of this *Approval*;
 - e. records of maintenance, repair and inspection of *Equipment* related to all *Processes with Significant Environmental Aspects*; and
 - f. all records related to environmental complaints made by the public as required by Condition 14 of this *Approval*.

16. REVOCATION OF PREVIOUS APPROVALS

1. This *Approval* replaces and revokes all Certificates of Approval (Air) issued under section 9 *EPA* and Environmental Compliance Approvals issued under Part II.1 *EPA* to the *Facility* in regards to the activities mentioned in subsection 9(1) of the *EPA* and dated prior to the date of this *Approval*.

SCHEDULE A

Supporting Documentation

1. Environmental Compliance Approval Application, dated March 29, 2019, signed by Fatima Correia and submitted by the *Company*;
2. Emission Summary and Dispersion Modelling Report, prepared by GHD and dated October 23, 2020.

SCHEDULE B

Targeted Source(s) and Test Contaminants for Source Testing:

- ***Targeted Source(s): Fluidized Bed Boiler***

- **Test Contaminants:** Total Suspended Particulate Matter and Benzo(a)pyrene

SCHEDULE C

Source Testing Procedure

1. The *Company* shall submit, not later than three (3) months prior to the *Source Testing*, to the *Manager* a *Pre-Test Plan* for the *Source Testing* required under this *Approval*. The *Company* shall finalize the *Pre-Test Plan* in consultation with the *Manager*.
2. The *Company* shall not commence the *Source Testing* required under this *Approval* until the *Manager* has approved the *Pre-Test Plan*.
3. The *Company* shall notify the *Manager*, the *District Manager* and the *Director* in writing of the location, date and time of any impending *Source Testing* required by this *Approval*, at least fifteen (15) days prior to the *Source Testing*.
4. The *Company* shall submit a report (hardcopy and electronic format) on the *Source Testing* to the *Manager*, the *District Manager* and the *Director* not later than three (3) months after completing the *Source Testing*. The report shall be in the format described in the *Source Testing Code*, and shall also include, but not be limited to:
 - a. an executive summary;
 - b. an identification of the applicable North American Industry Classification System code (NAICS) for the *Facility*;
 - c. records of operating conditions at the time of *Source Testing*, including but not limited to the following:
 - i. production data;
 - ii. *Facility*/process information related to the operation of the *Targeted Sources*;
 - iii. description of the emission sources controlled by the *Targeted Sources* at the time of testing; and
 - iv. operational description of the general building ventilation at the time of testing;
 - d. results of *Source Testing*, including the emission rate, emission concentration, and relevant emission factor of the *Test Contaminants* from the *Targeted Sources*; and,

5. The *Director* may not accept the results of the *Source Testing* if:
 - a. the *Source Testing Code* or the requirement of the *Manager* were not followed;
 - b. the *Company* did not notify the *Manager*, the *District Manager* and *Director* of the *Source Testing*; or
 - c. the *Company* failed to provide a complete report on the *Source Testing*.
6. If the *Director* does not accept the result of the *Source Testing*, the *Director* may require re-testing. If re-testing is required, the *Pre-Test Plan* strategies need to be revised and submitted to the *Manager* for approval. The actions taken to minimize the possibility of the *Source Testing* results not being accepted by the *Director* must be noted in the revision.
7. The *Company* shall update their *ESDM Report* in accordance with Section 26 of *O. Reg. 419/05* with the results from the *Source Testing* and make these records available for review by staff of the *Ministry* upon request. The updated Emission Summary Table from the updated *ESDM Report* shall be submitted with the *Source Testing* report.

SCHEDULE D

Continuous Temperature Monitor and Data Recorder

PARAMETER: Temperature

LOCATION:

The sample point for the Continuous Temperature Monitor shall be located in the combustion chamber where the minimum retention time of the combustion gases at a minimum temperature of 527 degrees Celsius for at least 2.4 seconds is achieved.

PERFORMANCE:

The Continuous Temperature Monitor shall meet the following minimum performance specifications for the following parameters.

PARAMETER SPECIFICATION

1. Type: shielded "K" type thermocouple or equivalent
2. Accuracy: + 1.5 percent of the minimum gas temperature

RECORDER:

The recorder must be capable of registering continuously the measurement of the monitor without a significant loss of accuracy and with a time resolution of 5 minutes or better.

RELIABILITY:

The monitor shall be operated and maintained so that accurate data is obtained during

a minimum of 90 percent of the time, on a monthly basis, when the *biogas flare* is in operation.

SCHEDULE E

Odour Best Management Practices Plan

1. The *Company* shall submit to the *District Manager* not later than thirty (30) days from the date of this *Approval* or within one (1) week after the *District Manager* has accepted in writing the *Odour Best Management Practices Plan* whichever is later, an *Odour Best Management Practices Plan* that includes preventative and control measures in place or under development to minimize odour emissions. Details of the *Odour Best Management Practices Plan* shall include:
 - a. *Facility* and process descriptions;
 - b. identification of sources of odour at the *Facility*;
 - c. *Facility* best management practices including a description of all odour control measures;
 - d. the frequency of occurrence of periodic preventative activities, including inspection and maintenance procedures and monitoring initiatives to ensure the effective implementation of the odour control measures, as applicable; and
 - e. record keeping and complaint response procedures;
2. The *Company* shall:
 - a. implement by not later than three (3) months from the date of this *Approval*, the *Odour Best Management Practices Plan*;
 - b. review and evaluate once every twelve (12) months from the date of this *Approval*, or at a frequency directed or agreed to in writing by the *District Manager*, the *Odour Best Management Practices Plan* for the control of odour emissions;
 - c. record the results of each annual review and evaluation, and update the *Odour Best Management Practices Plan* accordingly;
 - d. maintain the updated *Odour Best Management Practices Plan* at the *Facility* and make it available to the *Ministry* staff upon request; and
 - e. implement, at all times, the most recent version of the *Odour Best Management Practices Plan* within sixty (60) days of an update.
3. The *Company* shall record, and retain such records, each time a specific preventative and control measure described in the *Odour Best Management Practices Plan* is implemented. The *Company* shall record, as a minimum:

- a. the date when each emission control measure is implemented, 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.

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

1. GENERAL

Condition No. 1 is included to require the *Approval* holder to build, operate and maintain the *Facility* in accordance with the Supporting Documentation in Schedule A considered by the *Director* in issuing this *Approval*.

2. LIMITED OPERATIONAL FLEXIBILITY, REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION AND PERFORMANCE LIMITS

Conditions No. 2, 3 and 4 are included to limit and define the *Modifications* permitted by this *Approval*, and to set out the circumstances in which the *Company* shall request approval of an *Acceptable Point of Impingement Concentration* prior to making *Modifications*. The holder of the *Approval* is approved for operational flexibility for the *Facility* that is consistent with the description of the operations included with the application up to the *Facility Production Limit*. In return for the operational flexibility, the *Approval* places performance based limits that cannot be exceeded under the terms of this *Approval*. *Approval* holders will still have to obtain other relevant approvals required to operate the *Facility*, including requirements under other environmental legislation such as the *Environmental Assessment Act*.

3. DOCUMENTATION REQUIREMENTS

Condition No. 5 is included to require the *Company* to maintain ongoing documentation that demonstrates compliance with the performance limits as specified in Condition 4 of this *Approval* and allows the *Ministry* to monitor ongoing compliance with these performance limits. The *Company* is required to have up to date *Noise Screening Documents* and an up to date *ESDM Report* that describes the *Facility* at all times and make the *Emission Summary Table* from that report and the *Noise Screening Documents* available to the public on an

ongoing basis in order to maintain public communication with regard to the emissions from the *Facility*.

4. REPORTING REQUIREMENTS

Condition No. 6 is included to require the *Company* to provide a yearly *Written Summary Form* to the *Ministry*, to assist the *Ministry* with the review of the site's compliance with the *EPA*, the regulations and this *Approval*.

5. OPERATION AND MAINTENANCE

Condition No. 7 is included to require the *Company* to properly operate and maintain the *Processes with Significant Environmental Aspects* to minimize the impact to the environment from these processes.

6. ODOUR BEST MANAGEMENT PRACTICES PLAN

Condition No. 8 is included to emphasize that the *Facility* must be maintained and operated according to a procedure that will result in compliance with the *EPA*, the regulations and this *Approval*.

7. PERFORMANCE AND MONITORING

Conditions No. 9, 10, 11 and 12 are included to ensure optimum combustion performance in the *Equipment*.

8. SUMMARY REPORTS.

Condition No. 13 is included to require the *Company* to keep records and to provide information to staff of the *Ministry* so that compliance with the *Act*, the *Regulations* and this *Approval* can be verified.

9. COMPLAINTS RECORDING AND REPORTING PROCEDURE

Condition No. 14 is included to require the *Company* to respond to any environmental complaints regarding the operation of the *Equipment*, according to a procedure that includes methods for preventing recurrence of similar incidents and a requirement to prepare and retain a written report.

10. RECORD KEEPING REQUIREMENTS

Condition No. 15 is included to require the *Company* to retain all documentation related to this *Approval* and provide access to employees in or agents of the *Ministry*, upon request, so that the *Ministry* can determine if a more detailed review of compliance with the performance limits as specified in Condition 4 of this *Approval* is necessary.

11. REVOCATION OF PREVIOUS APPROVALS

Condition No. 16 is included to identify that this *Approval* replaces all Section 9 Certificate(s) of *Approval* and Part II.1 *Approvals* in regards to the activities mentioned in subsection 9(1) of the *EPA* and dated prior to the date of this *Approval*.

Upon issuance of the environmental compliance approval, I hereby revoke

Approval No(s). 5720-BDCL75 issued on June 27, 2019.

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
Toronto, Ontario
M4V 1P5

*** 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**

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 4th day of November,
2020

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

MS/
c: District Manager, MECP York-Durham
Jennifer Francis, GHD