

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 1206-BG4SP9

Issue Date: December 16, 2019

Stanton Bros. Limited
13514 Twelve Mile Rd
Middlesex Centre, Ontario
N0M 2A0

Site Location: Stanton Bros Bio-Gas Plant
13514 Twelve Mile Rd
Reference Plan 393903408008000 Roll #
Concession 12, S Part of Lot 23
Middlesex Centre Municipality, County of Middlesex
N0M 2A0

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:

a 0.71 hectare waste disposal site (anaerobic digestion), to receive a maximum of 60,000 tonnes of off-farm generated organic waste per year to be mixed and processed with on-farm generated materials to produce 500 normalized cubic metres per hour of biogas and 146,000 cubic metres per year of digestate, and consisting of the following processes and support units:

receipt of off-farm (non-agricultural) liquid and solid organic waste;

pasteurization in pasteurizer tanks #1, #2 and #3;

anaerobic digestion of off-farm (non-agricultural) organic waste and on-farm anaerobic digestion materials in a mixed anaerobic digester;

biogas upgrading in the system consisting of the following processes and support units:

- knockout tanks, blowers, compressors and cooler/heat exchanger to remove moisture from the biogas and to condition the biogas for treatment in the following biogas upgrading equipment:

- o one (1) Hydrogen Sulphide Scavenger unit consisting of two (2) activated carbon towers to remove hydrogen sulphide, volatile organic compound and siloxanes from the biogas; and
- o one (1) Pressure Swing Adsorption unit to treat and convert the biogas into Renewable Natural Gas; and

emergency flaring of the biogas;

temporary storage of digestate on Stanton Farms and transfer of digestate for land application or for further processing in the approved Regulated Mixed Anaerobic Digestion Facility located at Stanton Farms;

to be used for the processing of the following types of waste:

organic waste, limited to solid or liquid waste categories as set out in Schedules 1 and 2 of *O. Regulation 267/03*.

Note: Use of the site for any other type of waste is not approved under this environmental compliance approval, and requires obtaining a separate approval amending this environmental compliance approval.

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

" **Adverse Effect** " as defined in the *EPA*;

"**Agricultural Source Material**" is as defined in *O. Regulation 267/03* and within the context of this Approval it means an agricultural waste as defined in *Regulation 347* and exempted from the requirements under Part V of the *EPA* and this *Regulation 347*;

"**Anaerobic Digestion Output**" means any solid or liquid material that result from the treatment of anaerobic digestion materials in a mixed anaerobic digestion facility;

"**Approval**" means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation listed in Schedule "A";

"**bar**" is a unit of pressure;

"**cm³**" means cubic centimetre(s);

"**Digestate**" means the Organic Waste and the On-Farm Anaerobic Digestion Materials anaerobically digested (biodegraded/processed) in the Mixed Anaerobic Digester at the Site;

"**Director**" means any Ministry employee appointed in writing by the Minister pursuant to section 5 of the *EPA* as a Director for the purposes of Part II.1 of the *EPA*;

"District Manager" means the District Manager of the London Office of the Ministry or such other official of the Ministry as may be assigned the duties of the District Manager;

"EPA" means the *Environmental Protection Act*, R.S.O. 1990, c. E. 19, as amended;

"Equipment" means the equipment and processes described in the Owner's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval;

"Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a-named equipment;

"Fertilizer" means any substance or mixture of substances, containing nitrogen, phosphorus, potassium or other plant food, that is manufactured, sold or represented for use as a plant nutrient, as defined in the *Fertilizers Act*;

"Fertilizers Act" means the *Fertilizers Act*, R.S., 1985, c-F-10, as amended;

"Financial Assurance" is as defined in Section 131 of the *EPA*;

"Malfunction" means any sudden, unplanned, infrequent and not reasonably preventable failure of the equipment associated with approved waste receipt and/or waste management activities at the Site, excluding failures that may be caused in part by poor maintenance or negligent operation;

"Ministry" means the ministry of the government of Ontario responsible for the *EPA* and *OWRA* and includes all officials, employees or other persons acting on its behalf;

"Mixed Anaerobic Digester" means the same as Mixed Anaerobic Digestion Facility defined in *Regulation 347* and as approved in this Approval;

"mL" means millilitre;

"m²" means metres square;

"NMA" means the *Nutrient Management Act*, 2002, S.O. 2002, c. 4, as amended;

"NASM" means Non-Agricultural Source Material and is as defined in *O. Regulation 267/03*;

"liquid" in relation to the Organic Waste approved for receipt and processing at the Site, means the Organic Waste having a dry matter content of less than 18 per cent or less more or a slump of more than 150 mL using the Test Method for the Determination

of Liquid Waste (slump test) set out in Schedule 9 to *Regulation 347*;

"On-Farm Anaerobic Digestion Materials" is as defined in *O. Regulation 267/03* and *Regulation 347*, and within the context of this Approval means the agricultural wastes that are generated at an agricultural operation and are destined for the Mixed Anaerobic Digester at the Site and the Regulated Mixed Anaerobic Digester at Stanton Farms;

"O. Regulation 267/03" means *Ontario Regulation 267/03, General*, made under the *NMA*;

"Off-Farm Anaerobic Digestion Materials" is as defined in *O. Regulation 267/03* and *Regulation 347*, and within the context of this Approval it means the non-agricultural organic waste destined for the Mixed Anaerobic Digester at the Site and the Regulated Mixed Anaerobic Digester at Stanton Farms;

"Organic Waste" means solid and liquid non-hazardous readily biodegradable waste, limited to solid or liquid non-agricultural waste categories as set out in *O. Regulation 267/03*, as amended, received at the Site in accordance with this Approval and destined for processing at the Site, and as further described in Condition 3.1 of this Approval;

"Owner" means Stanton Bros. Limited that is responsible for the establishment and operation of the Site being approved by this Approval, any contractors that work on behalf of the Owner and includes any successors and assigns;

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;

"PA" means the *Pesticides Act*, R.S.O. 1990, c.P. 11, as amended;

"processed organic waste" is as defined as defined in *Regulation 347*. Processed organic waste produced at the Site does not include sewage residue from sewage works that are subject to the provisions of the *OWRA*;

"Professional Engineer" means a Professional Engineer as defined within the *Professional Engineers Act*, R.S.O. 1990, c. P.28, as amended;

"Provincial Officer" means any person designated in writing by the Minister of the Ministry as a provincial officer pursuant to Section 5 of the *OWRA* or Section 5 of the *EPA* or Section 17 of the *PA* or Section 4 of the *NMA* or Section 8 of the *SDWA*;

"Regulated Mixed Anaerobic Digester" means the same as Regulated Mixed

Anaerobic Digestion Facility as defined in *O. Regulation 267/03*;

"**Regulation 347**" means *Regulation 347*, R.R.O. 1990, *General - Waste Management*, made under the *EPA*, as amended;

"**Rejected Waste**" means the waste which is not approved for receipt and processing at the Site;

"**Residual Waste**" means the waste resulting from the processing of the incoming Organic Waste at the Site and which requires final disposal or further processing off-Site;

"**Renewable Natural Gas**" means the treated Biogas that complies with the quality criteria set out in this Approval and is destined for injection into the natural gas distribution infrastructure to be offered for retail sale to meet a realistic market demand;

"**SDWA**" means the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32, as amended;

"**Site**" means the entire waste disposal site named Stanton Bros Bio-Gas Plant, located at Stanton Farms;

"**solid**" in relation to the Organic Waste approved for receipt and processing at the Site, means the Organic Waste having having a dry matter content of more than 18 per cent or a slump of 150 mL or less using the Test Method for the Determination of Liquid Waste (slump test) set out in Schedule 9 to *Regulation 347*;

"**Stanton Farms**" means the farm located at 13514 Twelve Mile Rd, Reference Plan 393903408008000 Roll #, Concession 12, S Part of Lot 23, Middlesex Centre Municipality, County of Middlesex, N0M 2A0 and as shown in the supporting documentation listed in the attached Schedule "A";

"**Spill**" is as defined in the *EPA*;

"**SSO**" means the source separated organic waste which has been separated at its source of origin by the generator of the waste and including the bags used by the generator to encase the waste at the source of generation;

"**Trained Personnel**" means one or more Site personnel trained in accordance with the requirements of Condition 11.2. including an employee trained or knowledgeable through instruction and/or practice and able to carry out any necessary duties related to management of waste as approved in this Approval.

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

TERMS AND CONDITIONS

1.0 GENERAL

1.1 Compliance

(1) The Owner shall ensure compliance with all the conditions of this Approval and shall ensure that any person authorized to carry out work on or operate any aspect of the Site, is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Approval.

1.2 Build, etc. in Accordance

(1) Except as otherwise provided by this Approval, the Site shall be designed, developed, built, operated and maintained in accordance with the application for this Environmental Compliance Approval dated June 28, 2019, signed by Laurie Stanton, Stanton Bros. Limited and submitted by Nicholas Hendry, Stonecrest Engineering Inc.

(2) The following Conditions 1.2(2)a. and 1.2(2)b. do not apply to the existing infrastructure at the Site, that has been constructed and installed as part of the Regulated Mixed Anaerobic Digestion Facility regulated under the *NMA*:

- a. the Site shall be constructed and installed and must commence operation within five (5) years of issuance of this Approval, after which time the Approval ceases to apply in respect of any portions of the Site not in operation. In the event that the construction, installation and/or operation of any portion of the Site is anticipated to be delayed beyond the time period stipulated, the Owner shall submit to the Director an application to amend the Approval to extend this time period, at least six (6) months prior to the end of the period. The amendment application shall include the reason(s) for the delay and whether there is any design change(s); and
- b. within thirty (30) days of commencement of construction, the Owner shall prepare and submit to the District Manager a schedule for the completion of construction and commissioning operation of the Site. The Owner shall notify the District Manager within thirty (30) days of the commissioning operation of any the Site. Upon completion of construction of the Site, the Owner shall prepare and submit a statement to the District Manager, certified by a Professional Engineer, that the Site is constructed in accordance with this Approval.

1.3 As-built Drawings

(1) A set of as-built drawings, certified by a Professional Engineer and showing the design of the Site, shall be kept at the Site at all times.

1.4 Interpretation

(1) Where there is a conflict between a provision of any document, including the application referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.

(2) Where there is a conflict between the application and a provision in any documents listed in Schedule "A", the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment.

(3) Where there is a conflict between any two documents listed in Schedule "A", other than the application, the document bearing the most recent date shall take precedence.

(4) The requirements of this Approval are severable. If any requirement of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Approval shall not be affected thereby.

1.5 Other Legal Obligations

(1) The issuance of, and compliance with the conditions of this Approval does not:

- a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
- b. limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner to furnish any further information related to compliance with this Approval.

(2) Despite an Owner or any other person fulfilling any obligations imposed by this Approval, the person remains responsible for any contravention of any other condition of this Approval or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the Adverse Effect or impairment of water quality.

1.6 Adverse Effect

(1) The Site shall be constructed, operated and maintained in a manner which ensures

the health and safety of all persons and prevents generation of negative environmental impacts including but not limited to dust, odours, vectors, pests, birds, litter, vibration, noise and any other negative environmental effects that may cause an Adverse Effect.

(2) If at any time dust, including dust from vehicles leaving the Site, odours, vectors, pests, birds, litter, vibration, noise or other such negative environmental effects are generated at the Site and cause an Adverse Effect, the Owner shall take immediate and appropriate remedial action(s) that is/are necessary to alleviate the Adverse Effect, including suspension of all waste management activities and removal of waste from the Site, if necessary.

(3) The Owner shall take steps to minimize and ameliorate any Adverse Effect on the natural environment or impairment of water quality resulting from the approved operations at the Site, including such steps as accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.

1.7 Change of Owner

(1) The Owner shall notify the Director in writing, and forward a copy of the notification to the District Manager, within thirty (30) days of the occurrence of any change in:

- a. the ownership of the Site;
- b. the operator of the Site;
- c. the address of the Owner;
- d. the partners, where the Owner is or at any time becomes a partnership and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c. B.17, as amended, shall be included in the notification; or
- e. the name of the corporation where the Owner is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C.39, as amended, shall be included in the notification.

(2) No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance. In the event of any change in ownership of the Site, other than change to a successor municipality, the Owner shall notify the successor of and provide the successor with a copy of this Approval, and the Owner shall provide a copy of the notification to the District Manager and the Director.

1.8 Inspections by the Ministry

(1) No person shall hinder or obstruct a Provincial Officer from carrying out any and all

inspections authorized by the *OWRA*, the *EPA*, the *PA*, the *SDWA* or the *NMA* of any place to which this Approval relates, and without limiting the foregoing:

- a. to enter upon the premises where the approved processing is undertaken, or the location where the records required by the conditions of this Approval are kept;
- b. to have access to, inspect, and copy any records required to be kept by the conditions of this Approval;
- c. to inspect the Site, related equipment and appurtenances;
- d. to inspect the practices, procedures, or operations required by the conditions of this Approval;
- e. to conduct interviews with staff, contractors, agents and assignees of the Owner; and
- f. to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Approval or the *EPA*, the *OWRA*, the *PA*, the *SDWA* or the *NMA*.

1.9 Information and Record Retention

(1) Any information requested by the Ministry, concerning the operation of the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval shall, upon request, be provided to the Ministry in a timely manner and in a format specified by the Ministry. All records shall be retained for five (5) years except as otherwise authorized in writing by the Director.

(2) The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Approval or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:

- a. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Approval or any statute, regulation or other legal requirement; or
- b. acceptance by the Ministry of the information's completeness or accuracy.

(3) The Owner shall ensure that a copy of this Approval, in its entirety and including all its Notices of Amendment, and the documentation listed in Schedule "A", are retained at the Owner's office at all times.

1.10 Financial Assurance

(1) Within twenty (20) days from the date of this Approval, the Owner shall submit to the

Director, the additional Financial Assurance, as defined in Section 131 of the *EPA* in the amount of CAN \$9,817.00. This Financial Assurance shall be in a form acceptable to the Director and shall provide sufficient funds for the transportation, Site clean-up and disposal of all approved quantities of waste on the Site at any one time.

(2) Commencing on October 31, 2024 and at intervals of four (4) years thereafter, the Owner shall submit to the Director, a re-evaluation of the amount of Financial Assurance to implement the actions required under Condition 1.10.(1). The re-evaluation shall include an assessment based on any new information relating to the environmental conditions of the Site and shall include the costs of additional monitoring and/or implementation of contingency plans required by the Director upon review of the closure plan and annual reports. The Financial Assurance must be submitted to the Director within thirty (30) calendar days of written acceptance of the re-evaluation by the Director.

(3) Commencing on October 31, 2020, the Owner shall prepare and maintain at the Site an updated re-evaluation of the amount of Financial Assurance required to implement the actions required under Condition 1.10.(1) for each of the intervening years in which a re-evaluation is not required to be submitted to the Director under Condition 1.10.(2). The re-evaluation shall be made available to the Ministry staff, upon request.

(4) The amount of Financial Assurance is subject to review at any time by the Director and may be amended at his/her discretion. If any Financial Assurance is scheduled to expire or notice is received, indicating Financial Assurance will not be renewed, and satisfactory methods have not been made to replace the Financial Assurance at least sixty (60) days before the Financial Assurance terminates, the Financial Assurance shall forthwith be replaced by cash.

2.0 SIGNS and SITE SECURITY

2.1 Signs

(1) The Owner shall ensure that a sign is posted at the entrance to Stanton Farms, readable from the nearest public roadway bordering Stanton Farms. The following information shall be included on the sign:

- a. name of the Owner;
- b. this Approval number;
- c. normal hours of operation, including the hours for waste receipt and transfer from the Site;

- d. Owner's telephone number to which complaints may be directed;
- e. Ministry's telephone numbers to which complaints may be directed;
- f. Owner's twenty-four hour emergency telephone number (if different from above);
- g. a warning against unauthorized access; and
- h. a warning against dumping at the Site.

(2) The Owner shall install and maintain appropriate and visible signs at the Site to direct vehicles to the Organic Waste receiving areas and the Residual Waste removal areas.

(3) The Owner shall post appropriate and visible signs along the traffic route, including a turn-off into Stanton Farms, providing clear directions to the Site and to all Organic Waste drop-off areas clearly identifying the acceptable Waste types and other appropriate instructions.

2.2 Site Security

(1) The Owner shall ensure that all waste processing, loading, unloading and transfer to or from vehicles or containers at the Site are supervised at all times by Trained Personnel.

(2) The Owner shall ensure the Site is operated in a safe and secure manner, and that all waste is properly handled, contained or stored so as not to pose any threat to the general public and the Site personnel.

(3) The Owner shall ensure that access to the Site is regulated and that the Site is secured to restrict access only to authorized personnel.

3.0 SERVICE AREA, APPROVED WASTE TYPES and RATES

3.1 Service Area & Approved Waste Types

(1) The Owner may only accept Organic Waste from the Province of Ontario, limited to solid or liquid waste categories as set out in Schedules 1 and 2 of *O. Regulation 267/03*, as amended.

(2) The Owner shall not accept at the Site:

- a. any waste that is classified as hazardous waste in accordance with *Regulation 347*;
- b. any waste that is classified as "Specified Risk Materials" as defined by the

Canadian Food Inspection Agency Feed Act, 1993, as amended;

- c. any biosolids from the municipal wastewater treatment plants;
- d. any untreated septage as defined in *O. Regulation 267/03* or hauled sewage as defined in *Regulation 347*; and
- e. any SSO from the curbside collection programs or collected by municipalities at a centralized location.

3.2 Waste Receipt Rates

(1) The Owner is approved to receive the Organic Waste in quantities that are not to exceed:

- a. a maximum of 200 tonnes of solid Organic Waste daily or maximum of 200 cubic metres of liquid Organic Waste daily; and
- b. a maximum of 60,000 tonnes of Organic Waste annually.

4.0. SITE OPERATIONS

4.1 Operating Hours

(1) The Owner shall ensure that the Organic Waste is received at the Site and waste are removed from the Site only between the hours of 7:00 a.m. to 7:00 p.m. on any day.

(2) The Owner is approved to undertake waste management activities at the Site twenty-four (24) hours per day, seven (7) days per week.

4.2 Incoming Organic Waste Receipt

(1) The Owner shall inspect all incoming Organic Waste loads and the accompanying waste characterization documentation to ensure that only waste that is approved under this Approval is received at the Site.

(2) The incoming Organic Waste that has not been characterized in accordance with this Approval or that is not accompanied by the required documentation shall not be accepted at the Site and shall immediately be directed off-Site.

(3) The Owner shall establish and implement a waste screening and tracking system for all Organic Waste received, processed, stored at and transferred from the Site.

(4) Upon arriving at the Site, the solid or liquid Organic Waste requiring pasteurization shall be forthwith unloaded into the three (3) Pasteurizer Tanks.

(5) Upon arriving at the Site, the solid Organic Waste not requiring pasteurization shall be forthwith unloaded into the solids storage bunker.

(6) The Owner shall carry out a visual inspection of Organic Waste unloaded into the Pasteurizer Tanks or the bunker as the Organic Waste is being unloaded or immediately after unloading, for visual confirmation of the acceptability of the incoming Organic Waste.

4.3 Rejected Waste Handling

(1) In the event that Organic Waste that does not meet the quality criteria set out in this Approval is inadvertently accepted at the Site, the Owner shall ensure that:

- a. all Rejected Waste is handled and removed from the Site in accordance with *Regulation 347* and the *EPA*;
- b. if the liquid Rejected Waste is unloaded into a pasteurizer, the affected pasteurizer is emptied out and cleaned;
- c. if the solid Rejected Waste is unloaded into the bunker, the Rejected Waste is temporarily stored in a manner that ensures isolation from all other waste and materials and following removal from the Site the affected storage is cleaned prior to next use of the area for storage of the solid Organic Waste;
- d. all Rejected Waste is removed from the Site within forty eight (48) hours of its receipt or as acceptable to the District Manager; and
- e. if there is a delay with removing the Rejected Waste from a pasteurizer, the Owner shall reduce the Organic Waste receipt rate to ensure compliance with the processing parameters set out in this Approval, as appropriate.

(2) In the event that an Organic Waste load is refused or unacceptable waste is inadvertently accepted at the Site, a record shall be made in the daily log book or in an electronic file of the reason why the waste was refused and of the origin of the waste.

(3) District Manager shall be notified in writing of the receipt of unacceptable loads within three (3) business days.

(4) The following information shall be included in the notification to the District Manager:

- a. quantity and type of waste refused;
- b. source of the waste;
- c. final destination of the rejected waste, if known; and
- d. time and date of receipt and time and date of removal from the Site.

4.4 Storage

(1) The Owner is approved to store the maximum amount of solid Organic Waste that does not exceed 200 tonnes cubic metres, at any one time.

(2) The solid Organic Waste shall be stored at the Site in the solids storage bunker, located outdoors, and constructed in compliance with the requirements for a permanent nutrient storage facility set out in *O. Regulation 267/03* as proposed in the supporting documentation listed in the attached Schedule "A".

(3) The Owner shall ensure that sufficient capacity is available in solids storage bunker prior to unloading of the solid Organic Waste from the transport vehicles into the bunker.

(4) The solid Organic Waste temporarily stored in the solids storage bunker shall be covered overnight and during the atmospheric precipitation events.

(5) The solid Organic Waste shall not be stored in the solids storage bunker for longer than four (4) days from the its time of receipt, or as acceptable to the District Manager and confirmed in writing.

(6) The Owner shall ensure that the solid Organic Waste from the solids storage bunker is processed first if:

- a. the Organic Waste was received first; or
- b. the Organic Waste is wetter or more odourous than the Organic Waste from Condition 4.4(6)a.

(7) The solid Organic Waste temporarily stored in the solids storage bunker shall be inspected for odour on a daily basis and removed from the bunker if its fugitive odour emissions are comparable to those resulting from storage of OC3 NASM, as defined in *O. Regulation 267/03*.

(8) The solid Organic Waste listed in Schedule 2 of *O. Regulation 267/03* and requiring pasteurization in the Pasteurizer Tanks shall not be stored in the solids storage bunker.

(9) The Owner shall ensure that sufficient capacity is available in the Pasteurization Tanks prior to unloading of the Organic Waste from the transport vehicles into the Pasteurization Tanks and that the required pasteurization has been completed in accordance with the requirements set out in this Approval.

(10) The Owner shall ensure that the levels in the Pasteurization Tanks and the Mixed Anaerobic Digester tank are monitored and controlled on a continuous basis and that

the high level alarms are operational at all times.

(11) No storage of the Organic Waste in its transportation vehicle is approved under this Approval.

(12) The Owner shall ensure that the Mixed Anaerobic Digester is located within the spill containment area designed in accordance with documents in Schedule "A".

(13) The Owner shall ensure that the solid Organic Waste is stored in a manner that minimizes the generation of run-off and odours.

(14) Storage of solid Residual Waste storage at the Site shall be done in impermeable bags.

(15) Solid putrescible waste generated through activities not relating to the handling and processing of the Organic Waste shall be handled in a manner that does not create an adverse effect and in accordance with the requirements of *Regulation 347*.

(16) No outside waste storage other than that described above, is approved under this Approval.

(17) In the event that Organic Waste cannot be processed at the Site and the Site is at its approved waste storage capacity, the Owner shall cease accepting additional Organic Waste. Receipt of additional Organic Waste may be resumed once such receipt complies with the waste storage limits approved in this Approval.

(18) Biogas shall be stored in Light Residual Surge Tank that is approximately 2 metres in height and 1.5 metres in diameter and has a maximum holding capacity of 5 Litres.

(19) Biogas shall be stored in Tail Gas Surge Tank that is approximately 2 metres in height and 1.5 metres in diameter and has a maximum holding capacity of 5 Litres.

(20) Renewable Natural Gas shall be stored in Product Buffer Tank that is approximately 2 metres in height and 1.5 metres in diameter and has a maximum holding capacity of 5 Litres.

4.5 Approved Processing

(1) The following Organic Waste management/processing activities are approved under this Approval:

- a. receipt and temporary storage of the solid Organic Waste in the solids storage bunker;

- b. manual removal of inorganic constituents from the Organic Waste, as required and as proposed in the supporting documentation listed in the attached Schedule "A";
- c. blending of solid Organic Waste with incoming liquid Organic Waste in the Pasteurizer Tanks, as required, to produce Organic Waste mixture that complies with the definition of a liquid set out in this Approval;
- d. pasteurization of the Organic Waste in the Pasteurizer Tanks;
- e. anaerobic digestion of the Organic Waste mixed with the On-Farm Anaerobic Digestion Materials in the Mixed Anaerobic Digester;
- f. Biogas upgrade in the system comprising the following processes and support units:
 - i. knockout tanks, blowers, compressors and cooler/heat exchanger to remove moisture from the Biogas and to condition the Biogas for treatment;
 - ii. treatment of the Biogas in the following Biogas upgrading equipment:
 - A. one (1) Hydrogen Sulphide Scavenger unit consisting of two (2) activated carbon towers to remove hydrogen sulphide, volatile organic compound and siloxanes from the Biogas; and
 - B. one (1) Pressure Swing Adsorption unit to treat and convert the Biogas into Renewable Natural Gas; and
- g. emergency flaring of the Biogas.

(2) The Owner shall ensure that the incoming Organic Waste received at the Site and handled in accordance with this Approval, is used as a feedstock in the on-Site Mixed Anaerobic Digester and in the Regulated Mixed Anaerobic Digester located at Stanton Farms.

4.6 PASTEURIZATION

(1) No more than 155 cubic cubic metres of liquid Organic Waste shall be contained within each one of the three (3) Pasteurization Tanks at the Site.

(2) The three (3) Pasteurization Tanks shall be operated in parallel.

(3) The Pasteurization Tanks shall be insulated, heated and mixed as proposed in the supporting documentation in Schedule "A".

(4) The Owner shall ensure that the Organic Waste within the Pasteurization Tanks is maintained at a minimum temperature of 50 degrees Celsius (°C) for a minimum of

twenty (20) hours to ensure complete inactivation of pathogens in the Organic Waste.

(5) The temperature of the processing in the Pasteurization Tanks shall be monitored to verify compliance with Condition 4.6(4).

(6) A provision for an auditory alarm at the Site and a remote alarm to the dedicated Trained Personnel, when required pasteurization temperature is not being achieved, shall be provided and be in place prior to the first receipt of the Organic Waste destined for processing in the Mixed Anaerobic Digester at the Site.

(7) Should the pasteurization temperature monitoring show an excursion from the required setpoint, an auditory alarm at the Site and a remote alarm to the dedicated Trained Personnel shall be triggered.

(8) The Pasteurization Tanks shall be covered with a lid at all times, except when the tanks are being filled and/or visually inspected, as required in this Approval.

4.7 ANAEROBIC DIGESTION

(1) No more than 7,000 cubic metres of Organic Waste mixed with On-Farm Anaerobic Digestion Materials shall be contained and processed within the Mixed Anaerobic Digester located at the Site, at any one time.

(2) The maximum processing rate of the off-farm Organic Waste in the Mixed Anaerobic Digester shall be 50,000 tonnes per year as proposed in the supporting documentation listed in the attached Schedule "A".

(3) The Organic Waste destined for processing in the Mixed Anaerobic Digester shall be mixed with the On-Farm Anaerobic Digestion Materials so that at least 50 per cent, by volume, of the total amount of the Mixed Anaerobic Digester contents were the On-Farm Anaerobic Digestion Materials, at any one time, or as set out in the current version of *O. Regulation 267/03* requirement for the anaerobic digestion output classification as an Agricultural Source Material.

(4) The Mixed Anaerobic Digester shall be located outdoors as shown in the supporting documentation listed in the attached Schedule "A".

(5) The Mixed Anaerobic Digester shall be gas-mixed, insulated, heated and covered with a double membrane cover with a maximum permeability of $260 \text{ cm}^3/\text{m}^2/\text{day}/1 \text{ bar}$, all as proposed in the supporting documentation listed in the attached Schedule "A".

(6) The Mixed Anaerobic Digester shall be fitted with pressure/vacuum release valves.

(7) Ferric compound shall be stored and be added to the manure feedstock destined for processing in the Mixed Anaerobic Digester, at a location on Stanton Farms.

(8) Oxygen injection into the Mixed Anaerobic Digester for the purpose of hydrogen sulphide removal shall be carried out in accordance with the supporting documentation listed in the attached Schedule "A".

(9) The Organic Waste processing in the Mixed Anaerobic Digester shall be carried out in the mesophilic temperature range as proposed in the supporting documentation listed in Schedule "A", at all times.

(10) The Organic Waste shall be processed in the Mixed Anaerobic Digester for a minimum hydraulic retention duration of twenty (20) days as proposed in the supporting documentation listed in the attached Schedule "A", at all times.

(11) The liquid level, temperature and duration of the processing in the Mixed Anaerobic Digester shall be monitored.

(12) The Owner shall electronically monitor the over/under pressure relief valves on the Mixed Anaerobic Digester, to ensure that if they are open, it is recorded and the Owner is notified. Should any unintentional raw (untreated) Biogas be released from the over/under pressure relief valves to the atmosphere, regardless of quantity, the Owner shall immediately notify the Ministry, in writing.

4.8 BIOGAS MANAGEMENT and FLARING

(1) The Biogas quality and production rate shall be monitored as set out in the supporting documentation listed in the attached Schedule "A".

(2) The treated Biogas is considered to be a Renewable Natural Gas when it meets the requirements for injection into the natural gas distribution infrastructure.

(3) The Renewable Natural Gas produced at the Site shall comply with the applicable criteria required for its intended injection into the natural gas distribution infrastructure.

(4) The Owner shall maintain the Biogas flare system as a fully functional stand-by system, so that in the instance of a process upset and/or when the Biogas upgrading system is inoperable or producing Renewable Natural Gas that is out of compliance with the required quality criteria, the flare may be utilized to combust the Biogas.

(5) The treated Biogas which does not meet the required Renewable Natural Gas quality criteria shall be transferred to the flare for flaring.

(6) The flare shall be capable of combusting 600 normalized cubic metres of Biogas per hour, (equivalent to 110 per cent of the expected Biogas production from the Mixed Anaerobic Digester at the Site).

4.9 Outgoing Processed Organic Waste handling

(1) All outgoing Digestate shall be pumped from the Mixed Anaerobic Digester to the Regulated Mixed Anaerobic Digester or the Agricultural Source Material storage facility, both located on Stanton Farms.

4.10 Residual Waste Handling

(1) All Residual Waste removed from the Site for final disposal shall only be disposed of at a site for which a Provisional Environmental Compliance Approval has been issued by the Ministry and the site is approved to receive this type and quantity of waste.

(2) All Residual Waste shall be stored in impermeable bags as proposed in the supporting documentation listed in the attached Schedule "A".

4.11 Wastewater Management

(1) The run-off from the outdoor solids storage bunker shall be contained, collected and removed on a regular basis to prevent an occurrence of stagnant water pooling in the bunker area.

(2) The run-off from the outdoor solids storage bunker shall be:

a. inputted into the Pasteurization Tanks or the Mixed Anaerobic Digester;

b. removed from the Site in accordance with the requirements set out in the *EPA and Regulation 347*; or

c. managed at Stanton Farms in accordance with the *NMA* and its regulations.

(3) The run-off from the outdoor solids storage bunker shall not be transferred directly into the Agricultural Source Material Storage at Stanton Farms, unless mixing of the Agricultural Source Material with Non-Agricultural Source Material to generate an Agricultural Source Material is allowed under the *O. Regulation 267/03*.

(4) The condensate from the Biogas treatment shall be collected and added into the Pasteurizer Tanks as proposed in the supporting documentation listed in the attached Schedule "A".

5.0 EQUIPMENT and SITE INSPECTIONS and MAINTENANCE

5.1 Inspections

(1) Within thirty (30) days from the issuance of this Approval or as acceptable to the District Manager, the Owner shall prepare a comprehensive written inspection program which includes procedures for inspections of all aspects of the Site's operations including the following:

- a. Organic Waste and any other waste loading/unloading/storage/handling/processing areas;
- b. condition of all major pieces of the waste management and Biogas upgrading equipment;
- c. condition of all instruments for monitoring required under this Approval;
- d. presence of odours from waste management and Biogas upgrading operations at the Site;
- e. presence of excessive fugitive dust emissions from waste management and Biogas upgrading operations at the Site;
- f. presence of litter from waste management and Biogas upgrading operations at the Site; and
- g. presence of run-off from waste management and Biogas upgrading operations at the Sites.

(2) The inspection program shall be up-dated, as required, shall be retained at the Site and be made available for inspection by a Provincial Officer, upon request.

(3) The inspections required in Condition 5.1(1) shall be undertaken daily by Trained Personnel in accordance with the inspection program to ensure that all equipment and facilities at the Site are maintained in good working order at all times and that no off-Site impacts are occurring. Any deficiencies detected during these regular inspections must be promptly corrected.

5.2 Spare Parts

(1) The Owner shall prepare a list of critical spare parts and update this list annually or more frequently, if necessary, to ensure that this list is maintained up-to-date. The list shall be retained at the Site and be made available for inspection by a Provincial Officer, upon request.

(2) The Owner shall ensure that the critical spare parts are available at the Site at all

times or be immediately available from an off-Site supplier.

5.3 Maintenance

(1) The Owner shall develop and implement a preventative maintenance program for all on-Site equipment associated with the processing and managing of wastes and control of fugitive odour and dust emissions.

(2) The preventative maintenance program referred to in Condition 5.3(1) shall be maintained up-to-date, be retained at the Site and be available for inspection by a Provincial Officer, upon request.

6.0 QUALITY CRITERIA and TESTING

6.1 Incoming Organic Waste Quality Criteria

(1) The Owner shall ensure that the incoming Organic Waste feedstock destined for processing in the Mixed Anaerobic Digester at the Site complies with the requirements for the Off-Farm Anaerobic Digestion Materials set out in *O. Regulation 276/03*.

6.2 Testing of Incoming Organic Waste

(1) The Owner shall test the incoming Organic Waste feedstock in accordance with the requirements for the Off-Farm Anaerobic Digestion Materials set out in *O. Regulation 267/03* to confirm compliance with the quality criteria for Off-Farm Anaerobic Digestion Materials.

(2) Should results of testing of the incoming Organic Waste feedstock fail to meet the quality criteria specified in this Approval, the said Organic Waste feedstock shall be handled in accordance with the Contingency and Emergency Response Plan.

6.3 Digestate Quality Criteria

(1) The Digestate produced in the Mixed Anaerobic Digester at the Site shall comply with the requirements for an Agricultural Source Material classification criteria set out in *O. Regulation 276/03*.

(2) If the Digestate produced in the Mixed Anaerobic Digester at the Site during a Malfunction, is not managed as an Agricultural Source Material, it shall be managed as a processed organic waste, as defined in *Regulation 347* and/or a NASM in accordance with the requirements under the *EPA*, the *OWRA*, the *NMA* and any other relevant Ministry legislation and guidelines.

(3) The Digestate managed as a processed organic waste and destined for land application on non-agricultural land, for beneficial use, shall comply with the quality criteria set out in the Environmental Compliance Approval for the site where the processed organic waste is to be land-applied.

(4) The Digestate managed as a processed organic waste and destined for a Ministry-approved waste disposal site or a site approved to accept such waste by an equivalent jurisdiction, shall comply the quality criteria set out in the Environmental Compliance Approval for the waste disposal site or any applicable permit, licence or approval.

(5) The Digestate managed as a NASM and destined for application on agricultural land, shall comply with the regulatory requirements set out in the *NMA* and *O. Regulation 267/03*.

6.4 Testing of Digestate

(1) The Digestate that is to be managed as an Agricultural Source Material destined for land application on agricultural land shall be sampled and tested in accordance with the requirements set out in the regulations, policies and guidelines under the *NMA*.

(2) If the Digestate produced during a Malfunction is not managed as an Agricultural Source Material, the Owner shall undertake the NASM quality control sampling and testing set out in the regulations, policies and guidelines under the *NMA* or as required by the conditions of the Environmental Compliance Approval for the site where the Digestate is to be land-applied or transferred to.

7.0 MONITORING

7.1 Pasteurization/Anaerobic Digestion Monitoring

(1) The processing temperature in the Pasteurizer Tanks shall be monitored to verify compliance with Condition 4.6, above.

(2) The liquid level and the temperature of the processing in the Mixed Anaerobic Digester shall be monitored to verify compliance with Condition 4.7, above.

7.2 Renewable Natural Gas Quality Criteria

(1) The Renewable Natural Gas shall comply with the applicable criteria required for its intended injection into the natural gas infrastructure.

7.3 Biogas Monitoring/Renewable Natural Gas

- (1) The Biogas production and quality shall be monitored in accordance with the proposal set out in the supporting documentation listed in the attached Schedule "A".
- (2) For the purpose of ensuring compliance with the Renewable Natural Gas quality criteria, the Biogas shall be monitored following the Pressure Swing Adsorption system, as set out in the supporting documentation listed in the attached Schedule "A".
- (3) For the purpose of ensuring that the activated carbon breakthrough does not occur, the Biogas shall be monitored as set out in the supporting documentation listed in the attached Schedule "A".

8.0 END-USE OF OUTPUTS

8.1 End-use of the Digestate

- (1) The Digestate managed as an Agricultural Source Material may be inputted into the Regulated Mixed Anaerobic Digester at Stanton Farms or be transferred to the Agricultural Source Material Storage at Stanton Farms for future agricultural land application in accordance with the requirements set out in the *NMA* and its regulations.
- (2) If the Digestate is produced in the Mixed Anaerobic Digester at the Site during a Malfunction and it does not meet the Agricultural Source Material classification criteria set out in *O. Regulation 276/03*, and it is not to be managed as an Agricultural Source Material, the Digestate shall not be stored at the on-Site Agricultural Source Material storage facility.
- (3) If the Digestate is produced in the Mixed Anaerobic Digester at the Site during a Malfunction, and it does not meet the Agricultural Source Material classification criteria set out in *O. Regulation 276/03*, and it is not to be managed as an Agricultural Source Material, it shall be managed as a processed organic waste, as defined in *Regulation 347* and/or a NASM in accordance with the requirements under the *EPA*, the *OWRA*, the *NMA* and any other relevant Ministry legislation and guidelines and as follows:
 - a. the Digestate shall only be removed from the Site by a hauler approved by the Ministry to transport a processed organic waste and/or a NASM, as required;
 - b. if the Digestate managed as a processed organic waste is destined for land application on non-agricultural land, for beneficial use, the Owner shall ensure that the land application complies with the relevant conditions of the Environmental Compliance Approval for the site where the processed organic waste is to be applied;
 - c. if the Digestate managed as a processed organic waste is to be disposed of at a Ministry-approved waste disposal site or a site approved to accept such waste by

an equivalent jurisdiction, the Owner shall comply with the relevant requirements of the Environmental Compliance Approval issued for the waste disposal site or any applicable permit, licence or approval;

- d. if the Digestate managed as a NASM is destined for application on agricultural land, the Owner shall ensure that the land application of the NASM complies with the regulatory requirements set out in the *NMA* and *O. Regulation 267/03*; and

(4) If the Digestate is offered for sale as a Fertilizer in accordance with the *Fertilizers Act*, the following requirements shall be complied with:

- a. subject to CFIA's Fertilizer registration requirements, prior to each initial shipment of the Digestate generated at the Site and shipped from the Site as a Fertilizer, Owner shall provide to the Director and the District Manager notification from the CFIA that the Digestate generated at the Site, has been assessed and approved for use as a Fertilizer under the *Fertilizers Act*;
- b. in addition to the notification required by Condition 8.1(4)a., above, the Owner shall provide to the Director and District Manager the following information:
 - i. a copy of the complete application package submitted to the CFIA in support of the request to manufacture the Fertilizer;
 - ii. the specific requirements of the CFIA that must be met for the Digestate to be considered as a Fertilizer including all process monitoring, analytical, and quality assurance / quality control requirements; and
 - iii. a copy of the approved Product Label;
- c. all Digestate shipped from the Site as a Fertilizer must be accompanied by a Product Label that has been approved by the CFIA; and
- d. following any changes to the incoming feedstock type or quality, the Owner shall obtain a new Product Label or a confirmation from the CFIA that a new Product Label is not required.

8.2 End-use of the Biogas/Renewable Natural Gas

(1) The treated Biogas considered to be a Renewable Natural Gas shall be injected into the natural gas distribution infrastructure as proposed in the supporting documentation listed in the attached Schedule "A".

(2) The treated Biogas which does not meet the required Renewable Natural Gas quality criteria shall be transferred for flaring.

9.0 NUISANCE IMPACT CONTROL and HOUSEKEEPING

9.1 Trucks & Traffic

(1) The Owner shall visually inspect the vehicles that have delivered the Organic Waste to the Site for evidence of leaking or dripping waste. The Owner of the vehicles that leak shall be given a written notice of the presence of the leak. The notice shall include the vehicle owner's name, the vehicle Environmental Compliance Approval number, the type of Organic Waste delivered to the Site and the date of the delivery. A copy of the notice shall be retained at the Site and it shall be provided to the Ministry staff upon request.

(2) The Owner shall ensure that the exterior of all vehicles delivering the Organic Waste to the Site is washed prior to their departure from the Site, as appropriate.

(3) The Owner shall ensure that there is no queuing or parking of vehicles that are waiting to enter the Site on any roadway that is not a distinct part of the Site or Stanton Farms.

(4) The Owner shall ensure that the vehicles transporting waste to and from the Site use the designated on-Site traffic routes.

(5) The Owner shall ensure that all new drivers of vehicles transporting waste to and from the Site are instructed/trained on the acceptable on-Site traffic routes.

9.2 Litter

(1) The Owner shall prevent the escape of litter from the Site and pick up litter around the Site on a daily basis, or more frequently if necessary.

9.3 Vectors & Vermin

(1) The Owner shall:

- a. implement necessary housekeeping procedures to eliminate sources of attraction for vermin and vectors; and
- b. if necessary, hire a qualified, licensed pest control professional to design and implement a pest control plan for the Site.

9.4 Emissions to the Atmosphere

(1) The Owner shall ensure that the concrete floor of the solids storage bunker is cleaned regularly, including being washed down, as required.

(2) The Owner shall regularly clean all equipment used to handle and process the

Organic Waste at the Site, as required.

(3) The Owner shall ensure that all on-site roads and operations/yard areas are regularly swept/wetted to prevent dust impacts off-Site.

(4) The Owner shall take all necessary measures to minimize noise emissions to the atmosphere from the Site.

(5) The Owner shall electronically monitor the over/under pressure relief valves on the Mixed Anaerobic Digester to ensure that if they are open, it is recorded and the Owner is notified. Should any unintentional raw (untreated) Biogas be released from the over/under pressure relief valves to the atmosphere, regardless of quantity, and leave the Site, the Owner shall immediately notify the Ministry in accordance with the Spill reporting requirements in Condition 13.0.

10.0 COMPLAINT RESPONSE PROCEDURE

(1) A designated representative of the Owner shall be available to receive public complaints caused by the operations at the Site twenty-four (24) hours per day, seven (7) days per week.

(2) If at any time, the Owner receives any environmental complaints from the public regarding the operation of the Site, the Owner shall respond to these complaints according to the following procedures:

- a. Step 1: Receipt of complaint - The Owner shall record each complaint in a computerized tracking system. The information recorded shall include the following:
 - i. the name, address and the telephone number (or contact information) of the complainant, if known;
 - ii. the date and time of the complaint; and
 - iii. details of the complaint, including the description and duration of the incident.
- b. Step 2: Investigation of complaint - After the complaint has been received by the Owner and recorded in the tracking system, the Owner shall, immediately notify, either the District Manager by phone during office hours or the Ministry's Spills Action Centre at 1-800-268-6060 after office hours. The Owner shall immediately initiate investigation of the complaint. The investigation shall include, as a minimum, the following:
 - i. determination of the activities undertaken in the Site at the time of the complaint;

- ii. general meteorological conditions including, but not limited to the ambient temperature, approximate wind speed and its direction, sunny versus cloudy, inversion versus clear and windy, etc. at the time of the complaint;
 - iii. location of the person who submitted the complaint, if known, at the time of the incident; and
 - iv. determination if the complaint is attributed to activities being undertaken at the Site and if so, determination of all the possible cause(s) of the complaint;
- c. Step 3: Corrective Action - The Owner shall determine the remedial action(s) to address the cause(s) of the complaint and implement the remedial action(s) to eliminate the cause(s) of the complaint, as soon as practicably possible, and to prevent a similar occurrence in the future; and
- d. Step 4: Written Response - The Owner shall forward a formal reply to the complainant, if known and to the District Manager within one (1) week after the receipt of the complaint. The response shall include the results of the investigation of the complaint, the action(s) taken or planned to be taken to address the cause(s) of the complaint, and if follow-up response would be provided.
- e. Step 5: Recording - All of the information collected and actions taken must be recorded in the tracking system.

(3) If the District Manager deems the remedial actions taken as per Condition 10.(2)c. to be unsuitable, insufficient or ineffective, the District Manager may direct the Owner, in writing, pursuant to the remedial order section (s.17) or the preventative measures order section (s.18) of the *EPA* to take further measures to address the noted failure, upset or Malfunction. The further measures may include the following actions:

- a. reduction in the receipt of Organic Waste;
- b. cessation of the receipt of the Organic Waste;
- c. removal and off-site disposal of the Organic Waste;
- d. repairs or modifications to the equipment used for waste management and Biogas upgrading operations at the Site; and
- e. further investigation of possible sources of fugitive air emissions from the Site.

11.0 OPERATIONS MANUAL and STAFF TRAINING

11.1 Operations Manual

(1) The Owner shall prepare an Operations Manual for use by the Site personnel. As a minimum, the Operations Manual shall contain the following:

- a. outline the responsibilities of Site personnel;
- b. personnel training protocols;
- c. waste receiving and screening procedures;
- d. waste unloading, handling, storage and processing procedures;
- e. process monitoring procedures;
- f. sampling and testing procedures;
- g. Site inspections, spill, fire, upset and leakage recording procedures;
- h. procedure for handling complaints as described in this Approval.

(2) A copy of the Operations Manual shall be kept at the Site, must be accessible to personnel at all times and must be updated, as required.

11.2 Staff Training

(1) All operators of the Site shall be trained with respect to the following:

- a. relevant legislation, regulations and guidelines;
- b. major environmental concerns pertaining to the waste to be handled at the Site;
- c. occupational health and safety concerns pertaining to the processes and wastes to be handled at the Site;
- d. management procedures including the use and operation of equipment for the processes and wastes to be handled at the Site;
- e. records keeping procedures;
- f. contingency plan and emergency response procedures;
- g. specific written procedures for the control of adverse effects from the Site;
- h. specific written procedures for refusal of unacceptable incoming Organic Waste loads; and
- i. the requirements of this Approval.

(2) The training of the operators of the Site shall also include the procedures contained in the Operations Manual.

(3) The training of the operators of the Site shall be undertaken:

- a. upon commencing employment at the Site; and
- b. whenever procedures are updated.

12.0 CONTINGENCY MEASURES and EMERGENCY SITUATION RESPONSE

PLAN

(1) Prior to any processing of the Organic Waste in the Mixed Anaerobic Digester, the Owner shall prepare a Contingency Measures and Emergency Situation Response Plan. The Contingency Measures and Emergency Situation Response Plan shall be prepared in consultation with the District Manager, the local Municipality and the Fire Department. The Contingency Measures and Emergency Situation Response Plan, as a minimum, shall include the following information:

- a. emergency response procedures to be undertaken in the event of a spill, process upset, power failure, fire, explosion or any other emergency situation, including specific clean-up methods for wastes expected to be generated from the emergency situation;
- b. odour abatement plan to propose the design and operation of the contingency measures necessary to alleviate impacts from odours emitted from the waste management activities at the Site;
- c. dust abatement plan to propose the design and operation of the contingency measure to alleviate impacts from dust originating from the waste management and vehicular activities at the Site;
- d. trigger mechanism for implementation of the abatement plans required by b. and c, above;
- e. a list of equipment and clean up materials available for dealing with the emergency situations;
- f. notification protocol with names and telephone numbers of persons to be contacted, including persons responsible for the Site, the Ministry's District Office and Spills Action Centre, the local Fire Department, the local Municipality, the local Medical Officer of Health, and the Ministry of Labour, and the names and telephone numbers of waste management companies available for emergency response;
- g. procedures and actions to be taken should the incoming Organic Waste not meet the quality criteria specified by this Approval;
- h. procedures and actions to be taken should the outgoing Residual Waste not meet the quality criteria set out in the receiving site's Environmental Compliance Approval;
- i. procedures and actions to be taken should the Digestate fail to meet the requirements under the *NMA*; and
- j. procedures and actions to be taken should the occurrence of the substantiated complaints require the Owner to suspend the Organic Waste processing activities at the Site.

(2) An up-to-date version of the Contingency Measures and Emergency Situation

Response Plan shall be kept at the Site at all times, in a central location available to all staff, and a copy shall be submitted to the District Manager, the local Municipality and the Fire Department, if requested.

(3) The Contingency Measures and Emergency Situation Response Plan shall be reviewed on an annual basis and updated, if necessary. The revised version of the Contingency Measures and Emergency Situation Response Plan shall be submitted to the District Manager, the local Municipality and the Fire Department for comments and concurrence.

13.0 EMERGENCY SITUATIONS RESPONSE and REPORTING

(1) The Owner shall immediately take all necessary measures, as outlined in the Contingency Measures and Emergency Situation Response Plan, to handle the emergency situations occurring at the Site.

(2) The Owner shall ensure that the equipment and materials outlined in the Contingency Measures and Emergency Situation Response Plan are immediately available at the Site at all times and are in a good state of repair and fully operational.

(3) The Owner shall ensure that all Site personnel are fully trained in the use of the equipment and materials outlined in the Contingency Measures and Emergency Situation Response Plan, and in the procedures to be employed in the event of an emergency.

(4) All Spills shall be immediately reported to the **Ministry's Spills Action Centre at 1-800-268-6060** and shall be recorded in the log book as to the nature and cause of the Spill, and the action taken for clean-up, correction and prevention of similar future occurrences.

(5) Should a Spill occur at the Site, in addition to fulfilling the requirements from the *EPA*, the Owner shall submit to the Area Manager a written report within three (3) calendar days outlining the nature of the Spill, remedial measure taken and the measures taken to prevent future occurrences at the Site.

14.0 RECORDS KEEPING and RETENTION

14.1 Daily Activities

(1) The Owner shall maintain an on-site written or digital record of activities undertaken at the Site. All measurements shall be recorded in consistent metric units of measurement. The record shall include, as a minimum, the following:

- a. date of record;

- b. quantity and type of the Organic Waste received at the Site, including the incoming Organic Waste characterization results, as applicable;
- c. quantity and type of waste processed at the Site, including the waste inputted into the Mixed Anaerobic Digester and its classification as per definitions in the *O. Regulation 267/03*;
- d. quantity and type of waste present at the Site, including the Organic Waste in storage and the Organic Waste levels in the Pasteurizer Tanks and the Mixed Anaerobic Digester;
- e. amount of Digestate pumped from the Site to the Regulated Mixed Anaerobic Digester at Stanton Farms;
- f. amount of Digestate pumped from the Site to the Digestate storage facility at Stanton Farms;
- g. quantity of the Residual Waste shipped for final disposal, the name of the receiving site and its Environmental Compliance Approval number;
- h. quantity and type of any Rejected Waste rejected from the Site;
- i. process monitoring results;
- j. housekeeping activities, including litter collection, washing/cleaning activities, etc.
- k. date and the quantity of Biogas generated at the Site;
- l. date and the quantity of Renewable Natural Gas transferred from the Site to the natural gas distribution infrastructure;
- m. date and the quantity of condensate transferred off-Site to the Pasteurizer Tank;
- n. date and the quantity of Biogas transferred for flaring; and
- o. date of the activated carbon replacement.

(2) The Owner shall retain all records relating to waste characterization required by this Approval for a minimum of five (5) years.

14.2 Emergency Situations

(1) The Owner shall maintain an on-Site written or digital record of the emergency situations. The record shall include, as a minimum, the following:

- a. the type of an emergency situation;
- b. description of how the emergency situation was handled;
- c. the type and amount of material spilled, if applicable;
- d. a description of how the material was cleaned up and stored, if generated; and

e. the location and time of final disposal, if applicable.

14.3 Inspections

(1) The Owner shall maintain an on-Site written or digital record of inspections as required by this Approval. The record shall include, as a minimum, the following:

- a. the name and signature of person that conducted the inspection;
- b. the date and time of the inspection;
- c. the list of any deficiencies discovered;
- d. the recommendations for remedial action; and
- e. the date, time and description of actions taken.

14.4 Training

(1) The Owner shall maintain an on-Site written or digital record of training as required by this Approval. The record shall include, as a minimum, the following:

- a. date of training;
- b. name and signature of person who has been trained; and
- c. description of the training provided.

14.5 Sampling & Testing Records

(1) The Owner shall establish and maintain a written or digital record of all sampling and testing activities at the Site. This record shall include, as a minimum, the following information:

- a. waste sampled, sample collection locations and volume collected;
- b. day and time of collection;
- c. sample handling procedures;
- d. parameters tested for and the resulting concentrations;
- e. name of the laboratory facility conducting the testing; and
- f. conclusions drawn with respect to the results of the monitoring and testing.

14.6 Monitoring Records

(1) The Owner shall establish and maintain a written or digital record of all monitoring activities at the Site as required by this Approval.

14.7 Complaints Response Records

(1) The Owner shall establish and maintain a written or digital record of complaints received and the responses made as required by this Approval.

14.8 Annual Report

(1) By October 31st following the end of each operating year, the Owner shall prepare and submit to the District Manager an Annual Report summarizing the operation of the Site covering the previous calendar year. This Annual Report shall include, as a minimum, the following information:

- a. a signed statement that the Site was in compliance with the Approval;
- b. a monthly summary of the quality and the quantity of all incoming Organic Waste and outgoing Digestate, Residual Waste and Rejected Waste, including analytical data required to characterize the waste;
- c. material balance for each month documenting the amount of Organic Waste stored at the Site;
- d. a monthly summary of the quality and the quantity of the Digestate pumped to the Regulated Mixed Anaerobic Digester and the Digestate Storage;
- e. annual amount of Biogas produced at the Site;
- f. annual amount of Renewable Natural Gas transferred from the Site to the natural gas distribution infrastructure;
- g. annual amount of condensate transferred from the Biogas upgrading facility to the Pasteurizer Tanks;
- h. annual amount of Biogas transferred for flaring;
- i. any environmental and operational problems, that could negatively impact the environment, encountered during the operation of the Site or during Site inspections and any mitigative actions taken;
- j. any recommendations to minimize environmental impacts from the operation of the Site and to improve Site operation and monitoring programs in this regard;
- k. a summary of any complaints received and the responses made;
- l. a summary of any emergency situations, including use of over/under pressure relief valves, that have occurred at the Site and how they were handled;
- m. an update on the amount of Financial Assurance which has been provided to the Director;
- n. a summary of all inspections and maintenance carried out at the Site; and

o. any other information the District Manager requires from time to time.

15.0 SITE CLOSURE

(1) The Owner shall submit, for approval by the Director, a written Closure Plan four (4) months prior to the permanent closure of the Site. This plan must include, as a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work.

(2) Within ten (10) days after closure of the Site, the Owner must notify the Director, in writing, that the Site is closed and that the Closure Plan has been implemented.

Schedule "A"

This Schedule "A" forms part of this Environmental Compliance Approval

1. Application for this Environmental Compliance Approval dated June 28, 2019, signed by Laurie Stanton, Stanton Bros. Limited and submitted by Nicholas Hendry, Stonecrest Engineering Inc, with attachments.

2. E-mail dated July 9, 2019 (6:41 a.m.) from Nicholas Hendry, Stonecrest Engineering Inc, to Gabriela Sadowska, Ontario Ministry of the Environment, Conservation and Parks, providing ERO abstract for the proposal, including the proposed annual receipt rate of the off-farm waste.

3. E-mail dated July 24, 2019 (4:38 p.m.) from Nicholas Hendry, Stonecrest Engineering Inc, to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, providing additional information on the proposal, and including the following attachments entitled:

- a. "172301-20-0100-026653-02_Aufstellplan Fackelanlage"
- b. "238710 Report Ilderton Tanks June 2017"
- c. "BG18-1078--BGX 500 Preliminary Proposal-Faramor-Stanton Bros-24-07-01-R00... - Copy"
- d. "Digester Structural Drawings"
- e. "ECA response"
- f. "Process flow"
- g. "Representative screen"
- h. "Stanton Bros Ltd - ECA Application Drawings - S1- Rev1- 2019-06-21"
- i. "STANTON P&id 02072018"

j. "tdb_pegasspeicher_en"

4. E-mail dated July 25, 2019 (7:38 a.m.) from Nicholas Hendry, Stonecrest Engineering Inc, to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, providing amended page 20 of the Application for this Environmental Compliance Approval, and including the following attachment entitled: "ECA application ammended page 20.pdf".

5. E-mail dated August 28, 2109 (5:33 p.m.) from Nicholas Hendry, Stonecrest Engineering Inc, to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, providing additional information for the proposal.

6. E-mail dated September 11, 2109 (2:43 p.m.) from Nicholas Hendry, Stonecrest Engineering Inc, to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, providing additional information for the financial assurance estimate calculation, and including the following attachments entitled:

- a. "Stanton Organics Removal Quote.pdf"; and
- b. "20180605_132323.jpg"

7. E-mail dated November 15, 2109 (1:02 p.m.) from Nicholas Hendry, Stonecrest Engineering Inc, to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, providing clarification on the flare.

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

GENERAL

Conditions 1.1, 1.4, 1.5, 1.6 and 1.9 are included to clarify the legal rights and responsibilities of the Owner.

Conditions 1.2 and 1.3 are included to ensure that the Site is build and operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.

Condition 1.7(1) is included to ensure that the Site is operated under the corporate name which appears on the application form submitted for this approval and to ensure that the Director is informed of any changes.

Condition 1.7(2) is included to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Approval.

Condition 1.8 is included to ensure that the appropriate Ministry staff has ready access to the operations of the Site which are approved under this Approval. The Condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the *EPA*, the *OWRA*, the *PA*, the *NMA* and the *SDWA*.

Condition 1.10 is included to ensure that sufficient funds are available to the Ministry to clean up the Site in the event that the Owner is unable or unwilling to do so.

SIGNS and SITE SECURITY

Condition 2.0 is included to ensure that the Site's users, operators and the public are fully aware of important information and restrictions related to the operation of the Site.

Condition 2.0 is also included to ensure that the Site is sufficiently secured, supervised and operated by properly Trained Personnel and to ensure controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no Site personnel is on duty.

SERVICE AREA, APPROVED WASTE TYPES and RATES

Condition 3.0 is included to specify the approved Organic Waste receipt rate, the approved Organic Waste types and the service area from which the Organic Waste may be accepted at the Site based on the Owner's application and supporting documentation.

SITE OPERATIONS

Condition 4.1 is included to specify the hours of operation for the Site to ensure that the hours of Site's operation do not result in an Adverse Effect or a hazard to the natural environment or any person.

Condition 4.2 is included to ensure that only the approved the Organic Waste types are accepted and handled/processed at the Site.

Conditions 4.3 through 4.11 are included to ensure that waste storage and management, run-off management and the discharges of emissions to the atmosphere are undertaken in done in a way which does not result in an Adverse Effect or a hazard to the environment or any person and are in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.

Conditions 4.4, 4.6 and 4.7 are also included to identify the amounts of waste approved to be present at the Site at any one time for the purpose of calculating the Financial Assurance requirements for the Site.

EQUIPMENT and SITE INSPECTIONS and MAINTENANCE

Condition 5.0 is included to require the Site, including the equipment used for waste management and Biogas upgrading operations at the Site, to be inspected and the equipment be maintained thoroughly and on a regular basis to ensure that the operations at the Site are undertaken in a manner which does not result in an Adverse Effect or a hazard to the health and safety of the environment or any person.

QUALITY CRITERIA and TESTING

Conditions 6.1 and 6.2 are included to ensure that the Owner accepts and processes only the waste types that are approved in this Approval and that those wastes that are appropriate for anaerobic digestion approved under this Approval.

Conditions 6.3 and 6.4 are included to ensure that the Owner regularly tests the Digestate produced at the Site to verify its compatibility with the proposed final end-use.

MONITORING

Condition 7.0 is included to specify the pasteurization/anaerobic digestion process monitoring parameters and the Biogas upgrading process parameters required for a properly functioning operation as per the consensus in the industry and the Ministry's requirements.

END-USE of OUTPUTS

Condition 8.0 is included to ensure that all processed wastes are properly managed, processed and disposed of in accordance with the Ministry's regulatory requirements and in a manner that protects the health and safety of the public and the environment.

NUISANCE IMPACT CONTROL and HOUSEKEEPING

Condition 9.0 is included to ensure that the Site is operated and maintained in an environmentally acceptable manner which does not result in a negative impact on the natural environment or any person.

COMPLAINTS RESPONSE PROCEDURE

Condition 10.0 is included to require the Owner to respond to any environmental complaints resulting from the operations at the Site appropriately and in a timely manner and that appropriate actions are taken to prevent any further incidents that may cause complaints in the future.

OPERATIONS MANUAL and TRAINING

Condition 11.0 is included to ensure that personnel employed at the Site are fully aware and properly trained on the requirements and restrictions related to Site operations under this Approval.

CONTINGENCY MEASURES and EMERGENCY SITUATION RESPONSE PLAN

Condition 12.0 is included to ensure that the Owner is prepared and properly equipped to take action in the event of an emergency situation.

EMERGENCY SITUATIONS RESPONSE and REPORTING

Condition 13.0 is included to require further spill notification to the Ministry, in addition to the requirements already listed in Part X of the *EPA*.

RECORDS KEEPING and RETENTION

Condition 14.0 is included to ensure that detailed records of Site activities, inspections, monitoring and upsets are recorded and maintained for inspection and information purposes.

SITE CLOSURE

Condition 15.0 is included to ensure that final closure of the Site is completed in accordance with Ministry's standards.

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.

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 16th day of December,
2019

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

MW/
c: District Manager, MECP London - District
Nicholas Hendry, Stonecrest Engineering