

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A121001
Issue Date: March 26, 2025

Walker Environmental Group Inc.
Post Office Box, No. 100
Thorold, Ontario
L2V 3Y8

Site Location: 3879 Thorold Townline Road
Thorold City, Regional Municipality of Niagara
L2V 3Y5

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 15-hectares Waste Disposal Site consisting of a closed West Quarry Landfill and a transfer/processing (composting) site sited on top of the Landfill and the following waste management activities:

- construction, operation and monitoring of a 5.3-hectare Composting Site to receive and process a maximum of 90,000 tonnes per year of biodegradable Organic Waste originating in the Province of Ontario;
- receipt, temporary storage, processing and transfer of Wood;
- post-closure care and monitoring of the closed West Quarry Landfill.

The Composting Site encompasses the following processes, structures, equipment and areas:

- 5.3 hectares of the closed landfill, covered with approximately 1,000 mm of pulverized shale, 150 mm of granular A, and overlaid with approximately 120 mm of asphalt, used to construct the Composting Site and comprising the following:
 - one (1) 2,069 square metres (approximate) Receiving Building including the following areas:
 - one (1)-1,095 square metres (approximate) fully enclosed receiving area, for receiving source separated organics and operated under negative pressure and exhausting into two

(2)-124 square metres biofilters or as approved in the Air/ Noise Approval; and

- one (1)-726 square metres (approximate) partially enclosed structure to be used as a processing area; and

- one (1)-7.8 hectare GORE™ Cover Composting System on an asphalt pad to be used for twenty (20) in-vessel composting channels with in-floor trenches to deliver air to the windrows and to collect leachate from the windrows, to compost source separated organics, leaf and yard waste and the other approved compostable Organic Waste;

- one (1)-2.8 hectare pad to be used for open windrow composting and/or for a modified GORE™ Cover Composting System consisting of four (4) windrows, each with an aeration blower and the GORE™ cover but without the concrete channels and underdrains, to compost waste as follows:

- continued composting of the processed Organic Waste that has completed Phases I and II of the GORE™ Cover Composting;
- Open Windrow Composting of leaf and yard waste mixed with the processed organic waste that has completed Phase II of the GORE™ Cover Composting; and
- curing of immature compost.

- one (1)-9,359 m³ stormwater pond to collect leachate and stormwater run-off from the hard surfaces of the GORE™ Cover Composting System pads and from the Open Windrow Composting area;
- a stormwater pond aeration system consisting of a series of surface water aerators and/or one (1) windmill system;
- ancillary structures such as roads, weigh scales, office building and other equipment and infrastructure as required for the operation of the Site.

The closed West Quarry Landfill encompasses the covered waste footprint area and its leachate management system, including the leachate monitoring wells.

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

"Active Composting" means the phase of the Composting process in which the blended Organic Wastes are subjected to controlled conditions to facilitate thermophilic, aerobic and microbial decomposition;

"Adverse Effect" is as defined in the EPA;

"Agricultural Waste" within the context of this Approval means waste generated from agricultural activities including crop residues, spoiled silage, animal manure, animal bedding and spent mushroom compost and similar residential waste including household pet excrement, cat litter and pet bedding;

"Air/ Noise Approval" means the environmental compliance approval and any Schedules attached to it, including the application and its supporting documentation for activities set out in section 9 of the EPA and carried out at the Site;

"Amendment Materials" means brush, Wood and Wood products, that do not contain painted wood or composite wood products, including laminated wood;

"Approval" means this entire Environmental Compliance Approval document, issued in accordance with Section 20.2 of the EPA, and includes any schedules to it, the application and the supporting documentation listed in Schedule 1;

"Aquatic Waste" within the context of this Approval means wastes generated from aquatic sources including aquatic plants and animals and driftwood;

"Compost Quality Standards" means the Ministry standards for Compost as set out in the document entitled "*Ontario Compost Quality Standards* " dated July 25, 2012, as amended;

"Compost" has the same meaning as set out in the Standards Document. Furthermore, within context of this Approval, Compost also means the Processed Organic Waste, as defined in this Approval, from processing of waste at the Site that has been confirmed to comply with the applicable Compost Standards and for the times that testing is not required, it means the Processed Organic Waste from the approved processing at the Site;

"Composting Site" means the area dedicated to Composting as shown in the Supporting Documentation;

"Composting" has the same meaning as set out in the Standards Document. Furthermore, Composting must be conducted under controlled engineered conditions designed to decompose and stabilize organic matter. Exposure of organic matter under non-engineered conditions resulting in uncontrolled decay is not considered Composting. Composting process consists of Active Composting and Curing;

"Contaminating Life Span" unless O. Regulation 232/98 has a different definition, Contaminating Life Span means:

- a. in respect of a landfilling site, the period of time during which the site will produce contaminants at concentrations that could have an unacceptable impact if they were to be discharged from the site, and
- b. in respect of a landfilling site and a contaminant or group of contaminants, the period of time during which the site will produce the contaminant or a contaminant in the group at

concentrations that could have an unacceptable impact if they were to be discharged from the site;

"Curing" means the aerobic, microbial degradation process after the Active Composting phase of the Composting process, to produce solid, mature material that exhibits limited biological activity, which has degraded to the point where it can be stored and used without risk of odour and adverse effects, such as risk to plants from residual phytotoxic compounds and which meets the maturity standards;

"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 Niagara District Office of the Ministry;

"EASR" means the Environmental Activity and Sector Registry;

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

"Feedstock" means the incoming Organic Waste destined to undergo Composting at the Site;

"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;

"Final Disposal" within the context of this Approval means land disposal and thermal treatment, both as defined in Regulation 347, and does not include handling, storing, transferring, treating or processing of waste at a land disposal or a thermal treatment site;

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

"Finished Compost" in the context of this Approval, means the Processed Organic Waste, as defined in this Approval, destined for an end use as a Compost and that has been fully processed at the Site and is considered ready for sampling and testing for compliance with the Compost Quality Standards;

"Food Waste" means waste from residential, institutional, commercial and industrial operations which was originally intended for human or animal consumption;

"GORE™ Cover Composting System" means the Composting facility consisting of the bunkers, each with two (2) in-floor underdrains channels for aeration and leachate collection and an aeration blower and the GORE™ covers as described in the Supporting Documentation;

"Guideline F-15" means the Ministry's document Guideline F-15 entitled "Financial assurance

guideline" dated June 2011, as amended, and published on the Ministry's website;

"Guideline for the Production of Compost in Ontario" means the Ministry document entitled "Guideline for the Production of Compost in Ontario" originally dated July 25, 2012, as amended and published on the current Ministry's website;

"IC&I" means industrial, commercial and institutional;

"Immature Compost" within the context of this Approval, means the Processed Organic Waste, as defined in this Approval, which has finished the Active Composting, and was screened, if screening is required, but which does not yet comply with the maturity Compost Quality Standards;

"Laboratory Service Provider" means a laboratory service provider that is accredited by an internationally recognized accreditation body which accredits laboratories under ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*, as amended from time to time, including the Standards Council of Canada or the Canadian Association for Laboratory Accreditation;

"Landfill" means the closed landfilling area referred to as Closed West Quarry Landfill Site or Closed West Landfill Site;

"Leaf and Yard Waste" means waste consisting of natural Christmas trees and other plant materials but not tree limbs or other woody materials in excess of 7 centimetres in diameter and as defined in the O. Regulation 101/94, as amended, made under the EPA;

"Liquid Waste" means off-specification alcoholic (less than 24% alcohol) and non-alcoholic beverages and food which does not meet Regulation 347 Schedule 9 (Slump Test);

"Manual" means a document or a set of documents that provide written instructions to staff of the Owner;

"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;

"Mobile Equipment" as described in the Supporting Documentation;

"Modified GORE™ Cover Composting System" means the Composting facility consisting of four (4) windrows, each with an aeration blower and the GORE™ cover, but without a concrete channel and underdrains, as described in the Supporting Documentation;

"NASM" means non-agricultural source materials as defined in and within the meaning of O. Regulation 267/03. Within the context of this Approval, NASM also means a Processed Organic Waste, as defined in this Approval, produced at the Site and destined for land application on agricultural land in accordance with the requirements under NMA and that

meets the NMA requirements for this end use;

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

"O. Regulation 101/94" means Ontario Regulation 101/94, Recycling And Composting Of Municipal Waste, made under the EPA, as amended;

"O. Regulation 232/98" means Ontario Regulation 232/98, Landfilling Sites, made under the EPA, as amended;

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

"Ontario Drinking Water Quality Standards" means Ontario Regulation 169/03 (Ontario Drinking Water Quality Standards), made under the SDWA, as amended;

"Organic Waste Mix" means the mixture of the Organic Waste and the Amendment Materials and/or additives approved in this Approval;

"Organic Waste" means solid non-hazardous waste derived from plants or animals, including wastes consisting of other compounds of carbon, all readily biodegradable, and as further described in Condition 3.2(3) of this Approval and destined for Composting at the Site;

"Owner" means Walker Environmental Group Inc. that is responsible for the construction or operation of the Site and includes any successors and assigns in accordance with section 19 of the EPA;

"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;

"Pasteurization Phase" means heat treatment phase of Active Composting to inactivate pathogens from the incoming Feedstocks;

"Pre-Consumer Organic Waste" means off-spec produce, trimmings and peelings from fruit and vegetables, waste from food processing plants, brewing and wine making;

"Processed Organic Waste" is as defined in Regulation 347. Within the context of this Approval, the Processed Organic Waste also means a Compost or a NASM which are the outputs from approved processing of the Organic Waste at the Site;

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

"Professional Geoscientist" means a person that holds a certificate of registration under the *Professional Geoscientists Act*, 2000 and is a practising member, temporary member or

limited member of the Association of Professional Geoscientists of Ontario;

"Provincial Officer" means any person designated in writing by the Minister 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;

"Receiving Building" is one (1)-1,095 m² fully enclosed building to be used for the receiving and pre-processing of SSO waste as described in the Supporting Documentation or as approved in the Air/Noise Approval;

"Regional Director" means the Regional Director of the local regional Office of the Ministry in which the Site is located;

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

"Regulation 903" means R.R.O. 1990, Reg. 903: (Wells), made under the OWRA, as amended;

"Rejected Waste" means the load of incoming waste inadvertently received at the Site and deemed by the Owner to contain waste that is not approved for receipt at the Site or it does not meet the incoming Organic Waste quality criteria set out in this Approval or that cannot be Composted;

"Residual Waste" means waste resulting from the waste processing activities at the Site, or that cannot be Composted and is destined for Final Disposal;

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

"Sensitive Receptor" means any location where routine or normal activities occurring at reasonably expected times would experience adverse effect(s), from odour or contaminant discharges from the Site, including one or a combination of:

- a. private residences or public facilities where people sleep (e.g.: single and multi-unit dwellings, nursing homes, hospitals, trailer parks, camping grounds, etc.);
- b. institutional facilities (e.g.: schools, churches, community centres, day care centres, recreational centres, etc.),
- c. outdoor public recreational areas (e.g.: trailer parks, play grounds, picnic areas, etc.), and
- d. other outdoor public areas where there are continuous human activities (e.g.: commercial plazas and office buildings);

"Site" means the waste disposal site being approved under this Approval, located at 3879 Thorold Townline Road, Parts of Blocks 43, 44, 45 and 231A as shown in the Regional Municipality of Niagara, Corporation Plan 11 Town of Thorold, Regional Municipality of Niagara, Ontario;

"Spill" is as defined in the EPA;

"SSO" means the Source Separated Organics which consists of the Organic Waste suitable for Composting, which has been separated by the generator of the waste at its source of origin, from other waste under a program operated by or for a municipality, and including the bags used by the generator to encase the Organic Waste at the source of generation;

"Standards Document" means the Ministry's document entitled "Ontario Compost Quality Standards" dated July 25, 2012, as amended and including the following documents to provide operational guidance to accompany the "Ontario Compost Quality Standards":

- a. Guidance for Generators of Category AA, A, and B Compost and the Ontario Compost Quality Standards – Foreign Matter, Effective July 1st, 2015, as amended;
- b. Guidance for Generators of Category AA, A, and B Compost and the Ontario Compost Quality Standards – Sharp Foreign Matter, Effective July 1st, 2015, as amended;
- c. Guidance for Generators of Category AA, A, and B Compost and the Ontario Compost Quality Standards – Maturity, Effective July 1st, 2015, as amended;

"Supporting Documentation" means supporting documentation listed in the attached Schedule 1;

"Trained Personnel" means an employee trained in accordance with the requirements of Condition 12.2 and is knowledgeable through instruction and/or practice and able to carry out any necessary duties;

"Trucks" means the reagent truck(s) and the waste truck(s);

"Waste" means the waste approved for receipt at the Site for Composting and the in-process waste and the processed waste at the Composting Site as approved in this Approval;

"waste" within the context of this Approval, it means any material defined as a waste or designated to be a waste under any Ontario regulation or any other discarded, unwanted, unsuitable for its original use or purpose (for example off-specification or expired) post-consumer goods, items or materials. Any outputs from processing/treatment of waste at a waste disposal site continue to be considered waste; and

"Wood" is as defined in the Compost Quality Standards document.

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/required by this Approval, the Site shall be designed, developed, built, operated and maintained in accordance with the applications for this Approval and the Supporting Documentation listed in the attached Schedule 1.
- (2) The changes to the Site proposed in the application for the amendment of this Approval dated June 29, 2022, shall be constructed and the required equipment shall be 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).
- (3) All future applications to amend this Approval shall include a revised Design and Operations Report.
- (4) No changes to the Design and Operations Report shall be done without the approval from the Director.

- (5) Unless exempted from an environmental compliance approval requirement, any waste handling equipment that is not approved in this Approval but is to be operated at the Site must be an approved waste management system, also referred to by the Ministry as a mobile unit, approved by the Ministry for a temporary operation at any site.

1.3 As-built Drawings

- (1) Unless otherwise required by the District Manager, a set of as-built drawings, certified by a Professional Engineer and showing the Receiving Building as constructed 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 1, 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 1, 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 emission that caused the Adverse Effect or

impairment of water quality.

1.6 Adverse Effects

- (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, 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. Records shall be retained for two (2) 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 1, are retained at the Owner's office at all times.

- (4) Any information relating to this Approval and contained in Ministry files may be made available to the public in accordance with the provisions of the *Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, C. F-31.
- (5) All records and monitoring data required by the conditions of this Approval must be kept on the Owner's premises for a minimum period of two (2) years from the date of their creation.
- (6) The Owner shall ensure that all communications/correspondence with the Ministry made pursuant to this Approval includes reference to the Approval Number A121001.

1.10 Financial Assurance

- (1) The Owner shall maintain the existing Financial Assurance in the amount of \$513,256.00 and within thirty (30) days from this Approval submit additional Financial Assurance in the amount \$120,332.36 to a total Financial Assurance of \$633,588.36 for the Composting Site. This Financial Assurance shall be in a form acceptable to the Director and shall provide sufficient funds for the analysis, transportation, the Composting Site clean-up, monitoring and disposal of all quantities of waste on the Composting Site at any one time.
- (2) Within six (6) months from the date of this Approval, the Owner shall submit to the Director for approval, an estimate for additional Financial Assurance for the cost of post-closure care and monitoring of the closed Landfill part of the Site. The estimate shall include the post-closure care items from Appendix G of Guideline F-15 including but not limited to post-closure inspection, maintenance and monitoring and operation, inspection and maintenance of the control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas and record keeping and reporting required for the Contaminating Lifespan of the Landfill.
- (3) Commencing on February 28, 2030 and at intervals of five (5) 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 Composting Site and shall include a quotation from a licensed landfill site for the disposal of the Residual Waste. The Financial Assurance must be submitted to the Director within twenty (20) days of written acceptance of the re-evaluation by the Director.
- (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.

1.11 Certificate of Requirement

- (1) Prior to dealing with the property in any way, the Owner shall provide a copy of this Approval and any amendments, to any person who will acquire an interest in the property as a result of the dealing.
- (2) Within thirty (30) calendar days from the date of issuance of this Approval, the Owner shall submit to the Director a completed Certificate of Requirement which shall include:
 - a. a plan of survey prepared, signed and sealed by an Ontario Land Surveyor, which shows the Owner-owned area of the Site where waste has been deposited at the Site;
 - b. proof of ownership of the Site;
 - c. a letter signed by a member of the Law Society of Upper Canada or other qualified legal practitioner acceptable to the Director, verifying the legal description provided in the Certificate of Requirement;
 - d. the legal abstract of the property; and
 - e. any supporting documents including a registerable description of the Site.
- (3) Within fifteen (15) calendar days of receiving a Certificate of Requirement authorized by the Director, the Owner shall:
 - a. register the Certificate of Requirement in the appropriate Land Registry Office on the title to the property; and
 - b. submit to the Director written verification that the Certificate of Requirement has been registered on title.
- (4) Within twelve (12) months from the date of this Approval or as acceptable to the District Manager, the Owner shall submit to the District Manager a plan on how to comply with the items set out in conditions 1.11(2) and 1.11(3) as they relate to the leased portion of the Site.
- (5) The plan from condition 1.11(4) shall be supported with documentation on discussions and negotiations with the landowner of the leased sections of the Site.

2.0 Signs and Security

2.1 Signs

- (1) The Owner shall install and maintain a sign at the main entrance/exit to/from the Site on which is legibly displayed the following information:
 - a. the name of the Site and Owner;
 - b. the number of the Approval;
 - c. the name of the operator;
 - d. a twenty-four (24) hour telephone number to reach the Owner in the event of an emergency or complaint.

2.2 Security

- (1) The Site shall be maintained in a secure manner, such that unauthorized vehicles cannot enter the Site.
- (2) The Owner shall take all reasonable precautions and practical measures to prevent unauthorized persons from entering the Site, to prevent vandalism and damage to the Site's infrastructure and equipment and to prevent risk to human health and safety.
- (3) The Owner shall limit access to and from the Site to the approved hours of operation and when the Site is supervised by a Trained Personnel.
- (3) The Owner shall ensure that the Site is secured and that all entrances are secured by lockable gates to prevent unauthorized vehicle access when the Site is not open.
- (4) The Owner shall ensure that the Site is operated in a safe and secure manner, and that all waste is properly handled, contained and stored so as not to pose any threat to the general public and the Site personnel.

3.0 Service Area, Approved Waste Types and Quantities and Prohibited Waste Types

3.1 Service Area

- (1) This Site is approved to accept Organic Waste originating from the generators in the Province of Ontario.
- (2) The Owner shall ensure that more than 50% of the Waste received at the Site is generated within the geographic area of the Regional Municipality of Niagara. The remainder of the Waste received, up to the maximum capacity approved in Condition 3.2(1), shall be generated within the Province of Ontario.

3.2 Approved Waste Types and Quantities

- (1) The total amount of all types of the approved Waste, which may be received at this Site, shall not exceed 90,000 tonnes per year.
- (2) The maximum amount of Waste received at the Site shall not exceed 2,675 tonnes per day.
- (3) The maximum daily rate at which each category of the approved Organic Waste types received at the Site shall not exceed the following:
 - a. a maximum of 250 tonnes per day of agricultural waste;
 - b. a maximum of 25 tonnes per day of aquatic waste;
 - c. a maximum of 200 tonnes per day of Food Waste;
 - d. a maximum of 1,000 tonnes per day of Leaf and Yard Waste;
 - e. a maximum of 250 tonnes per day of pre-consumer Organic Waste;
 - f. a maximum of 250 tonnes per day of solid non-hazardous waste;
 - g. a maximum of 200 tonnes per day of liquid waste that results directly from food processing and preparation operations;
 - h. a maximum of 250 tonnes per day of Wood;
 - i. a maximum of 750 tonnes per day of SSO;
- (4) The Owner shall ensure that the maximum total amount of waste at the Site does not exceed 75,000 tonnes at any one time.
- (5) Waste from Condition 3.2(4) includes all incoming and pre-processed Organic Waste, the in-process Organic Waste, the Residual Waste, the Wood and the wooden overs.
- (6) The Owner shall not accept any individual waste source, additive, bulking agent or inoculant that exceeds the metal concentrations limits, as calculated on a dry weight basis, as required in the Feedstock Standards from the Standards Document.

3.3 New Waste Category

- (1) Prior to any receipt of any new category of the Organic Waste, the Owner shall follow the procedures proposed in the Supporting Documentation.
- (2) Despite provisions of Condition 3.3(1), the Owner shall comply with the following:
 - a. A minimum of seven (7) days before the Owner accepts at the Site any new category of the Organic Waste, other than those described in the supporting documentation in the attached Schedule 1, the Owner shall provide to the District Manager a notice of the Owner's intent to commence acceptance of the new Organic Waste category at the Site.
 - b. A new category from Condition 3.3(2)a. also includes any sources of the Organic Waste already being accepted at the Site that will be changed in their composition

or odour loading characteristics as a result of operational changes at the generator's site.

- c. The Owner shall also submit to the District Manager any information regarding the new Organic Waste category requested by the District Manager in writing and as a minimum the Notice required by Condition 3.3(2)a. shall include including the following:
 - i. the name and location of the source generator;
 - ii. the date the Owner proposes to commence accepting the Organic Waste at the Site;
 - iii. description of the constituent components of the Organic Waste being accepted;
 - iv. confirmation whether inclusion of any Organic Waste components not approved for receipt at the Site are characterized as incidental or inadvertent;
 - v. information related to the handling and storage of the Organic Waste prior to its delivery to the Site; and
 - vi. any operational plans the Owner proposes for integrating the processing of the Organic Waste from the new source into the waste stream currently being processed at the Site.
- d. Should the District Manager be unable to accept the submission referred to in Condition 3.3(2)c., above, the acceptance of any new source or a new sub-category of the Organic Waste at the Site, must be approved by the Director.

3.4 Prohibited Waste Types

- (1) The Site is not approved to receive the following waste types:
 - a. any waste that is classified as hazardous waste in accordance with Regulation 347;
 - b. any non-hazardous animal carcasses, including deadstock as defined in O. Regulation 105/09: Disposal of Deadstock under the *Food Safety and Quality Act*, 2001, S.O. 2001, c.20;
 - c. any waste that is classified as "Specified Risk Materials" which has the same meaning as in section 6.1 of the *Health of Animals Regulations* (C.R.C., c. 296), made under the *Health of Animals Act* (S.C. 1990, c. 21), as amended;
 - d. any untreated septage as defined in O. Regulation 267/03 or hauled sewage as

defined in Regulation 347;

- e. any sewage sludge, which within the context of this Approval means the organic materials resulting from treatment of sewage up-to the anaerobic digestion processing step at sewage works, where the sewage works is subject to the requirements under the OWRA and,
 - i. means any works for the collection, transmission, treatment and disposal of sewage or any part of such works, but does not include plumbing to which the *Building Code Act*, 1992 applies; and
 - ii. is owned by a municipality or is privately-owned;
 - iii. is owned by the Crown or the Ontario Clean Water Agency, subject to an agreement with a municipality under the OWRA; or
 - iv. receives only waste similar in character to the residential (domestic) sewage from a household;
- f. any biosolids, which within the context of this Approval mean the organic materials resulting from treatment of sewage, including the anaerobic digestion processing step at sewage works;
- g. dedicated loads of soiled diapers, soiled incontinence products, soiled sanitary products and pet waste from the IC&I sources;
- h. any liquid IC&I waste that does not meet the definition of the Organic Waste;
- i. any SSO that contains or is suspected of containing plant or animal products or by-products taken from aircraft, passengers and/or crew of the aircraft arriving in Ontario; and
- j. any SSO that contains or is suspected of containing plant or animal products or by-products taken from a vessel, passengers and/or crew of vessels arriving in Ontario.

4.0 SITE OPERATIONS

4.1 Hours of Operation

- (1) The Owner shall ensure that,
 - a. Waste is received at the Site only from 7:00 a.m. to 8:00 p.m. Monday through Saturday; and
 - b. Shredding of Wood is done only between 7 a.m. to 8 p.m.
- (2) All other waste management activities, including Composting are approved to occur 24 hours per day, 7 days per week.

4.2 Incoming Waste Receipt

- (1) Unless otherwise required in this Approval, the incoming Waste receipt shall be as set out in the Supporting Documentation.
- (2) All loads of the incoming Organic Waste accepted at the Site for Composting must be characterized in accordance with this Approval.
- (3) At the weigh scale, the Trained Personnel shall ensure that all loads of the incoming Organic Waste being accepted at the Site are accompanied by documentation containing the results of the required Organic Waste characterization or showing the origin of the Organic Waste, if generated by a source considered to be well-studied and classified by the Owner as a pre-approved generator of the Organic Waste.
- (4) Waste intended for Composting at the Site 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.
- (5) The Trained Personnel shall visually inspect the incoming Waste, at the scale, house, if possible, and again as it is being unloaded to ensure that the incoming Waste is approved for receipt at the Site.
- (6) The Trained Personnel at the scale house shall direct all vehicles with putrescible and odourous Organic Waste, including SSO, Packaged Organic Waste and other food-based waste, to be unloaded within the Receiving Building as set out in this Approval and in accordance with the Supporting Documentation.
- (7) All other Waste receipt shall be undertaken in the designated areas set out in the documents in the attached Schedule 1.
- (8) Receipt of putrescible and odourous Organic Waste, including SSO, Packaged Organic Waste and other food-based waste outdoors in a designated area, is allowed with prior notification to and with concurrence of the District Manager.

4.3 Residual Waste and Rejected Waste Handling and Disposal

- (1) As proposed in the Supporting Documentation, the Owner shall ensure that the Residual Waste, including non-hazardous solid non-biodegradable waste, and metals, is stored within the confines of the Receiving Building, at all times.
- (2) As proposed in the Supporting Documentation, the Owner shall ensure that the metal is stored in containers and that each container is shipped off the Site as soon as the contain is filled.
- (3) Wooden overs from screening of the Finished Compost may be stockpiled outdoors

in the designated areas.

- (4) The Owner shall take all necessary steps to prevent litter and odour emissions from wooden overs stockpiles.
- (5) Wooden overs that are unsuitable for re-use in Composting shall be transferred off-Site when a load is accumulated or when storage has caused odour complaints.
- (6) Residual Waste shall only be disposed of at a site for which an environmental compliance approval has been issued by the Ministry or the equivalent jurisdiction.
- (7) The Owner shall ensure that the Rejected Waste is:
 - a. temporarily stored in designated storage area(s);
 - b. segregated from all other waste;
 - c. stored in a way that ensures that no Adverse Effect results from the temporary storage; and
 - d. handled and removed from the Site in accordance with Regulation 347 and the EPA.
- (8) The Rejected Waste shall be removed from the Site within four (4) business days or as directed by the District Manager.
- (9) Only haulers approved by the Ministry or registered on the EASR, as required, shall be used to transport the Rejected Waste and the Residual Waste from the Site.

4.4 Approved Waste Management Activities

- (1) The following waste management activities are approved in this Approval:
 - a. receipt and temporary storage of the Organic Waste destined for Composting at the Site;
 - b. pre-processing of the Organic Waste, including the following:
 - i. shredding and mixing of the Organic Waste to reduce the waste size, to blend the waste into the Organic Waste Mix and to achieve optimum, moisture, pH, bulk density and carbon-to-nitrogen levels for GORE™ Cover Composting; and
 - ii. grinding of the Organic Waste (mostly Leaf and Yard waste) to reduce the waste size to make it suitable for to be Composted or be used as bulking agent in Composting;
 - c. transfer of the Organic Waste from the temporary storage/pre-processing locations

to the Composting areas of the Site;

d. processing of the Organic Waste, including the following:

i. Composting of the Organic Waste;

ii. Curing of Immature Compost;

iii. screening of Finished Compost, if screening is required based on the proposed end use;

iv. shredding of wooden overs destined for re-use in the Composting process;

e. temporary storage of Residual Waste and Rejected Waste and transfer off-Site.

f. loading of the leachate into tanker trucks for transport off-Site to a location for the end-use as a Fertilizer.

(2) All Composting shall take place in designated areas as set out in the Supporting Documentation.

(3) All activities approved under this Approval shall only be carried out by appropriately Trained Personnel.

(4) Pre-processing of the Organic Waste shall be as follows:

- a. during normal operations at the Site, when using the permanent shredder, the Owner shall ensure that all shredding and mixing of the Organic Waste, is carried out within the confines of the Receiving Building;
- b. should an emergency situation prevent the Owner from pre-processing the Organic Waste within the Receiving Building, the Owner may pre-process the Organic Waste outdoors in a designated area on a short term basis and within twenty four (24) hours from the commencement of the outdoor processing of the Organic Waste notify in writing the District Manager and immediately discontinue this operation if instructed in writing by the District Manager;
- c. should the Owner plan for a longer pre-processing of the Organic Waste outdoors, the Owner may pre-process the Organic Waste outdoors in a designated area with written concurrence of District Manager;
- d. the Organic Waste received in the Receiving Building shall be mixed into the Organic Waste Mix on the day of the Organic Waste receipt;
- e. the Organic Waste Mix shall be transferred into the GORE™ Cover Composting System within twenty four (24) hours of receipt, but no later than seventy two (72)

hours of receipt should unfavourable weather conditions prevail; and

- f. grinding of the Organic Waste (mostly Leaf and Yard waste) with a mobile grinder shall be carried out in the designated area.

- (5) Operation of a mobile grinder is approved for use to reduce the size of Organic Waste (mostly Leaf and Yard Waste) accepted to the Site so that it can be either Composted or used as bulking agent in the Composting processes.
- (6) Operation of a mobile grinder is approved for use on the Wood Grinding Pad (processing pad) located in the area denoted as the Grinding Pad in the Site Plan.
- (7) Packaged Organic Waste shall be managed in accordance with the Supporting Documentation and as follows:
 - a. all Packaged Organic Waste shall be received and pre-processed as set out in Condition 4.4(5)a., 4.4(5)b. or 4.4(5)c. of this Approval;
- (8) Liquid Waste shall be managed in accordance with the Supporting Documentation and as follows:
 - a. upon receipt at the Site, the Liquid Waste received may be sprayed directly onto the Composting windrows prior to commencement of Pasteurization Phase of Active Composting; or
 - b. be temporarily stored in an impermeable, sealed and covered container until incorporated into the Composting windrows prior to commencement of Pasteurization Phase of Active Composting.
- (9) Composting of the Organic Waste shall be in the GORE™ Cover Composting System or in the Open Windrows process.
- (10) Composting of the Organic Waste in the GORE™ Cover Composting System shall be done as follows:
 - a. GORE™ Cover Composting shall be carried out in the dedicated area and as proposed in the Supporting Documentation.
 - b. GORE™ Cover Composting System shall utilize active aeration and leachate collection in concrete channels and underdrains.
 - c. GORE™ Cover Composting System shall be used for Active Composting as the Phases I and II processing areas.

- d. The Owner shall prioritize Composting of more putrescible and more odourous Organic Waste to be done in the GORE™ Cover Composting System.
 - e. Oxygen and temperature sensors shall be inserted through openings in the GORE™ cover and the system shall be turned over to automatic computer control, as recommended by the manufacturer.
- (11) Composting of the Organic Waste in the Modified GORE™ Cover Composting System shall be done as follows:
- a. The feedstocks for Composting in the Modified GORE™ Cover Composting System shall be mainly Leaf and Yard Waste, Wood and less putrescible and less odourous Organic Waste.
 - b. The Modified GORE™ Cover Composting System shall be located in northern area of the Site as proposed in the Supporting Documentation.
 - c. The Modified GORE™ Cover Composting System shall utilize active aeration and the GORE™ Covers but is not proposed to include concrete channels and underdrains.
 - d. The Modified GORE™ Cover Composting System may be used for Active Composting as the Phase III processing area or for Immature Compost Curing purposes.
 - e. Oxygen and temperature sensors shall be inserted through openings in the GORE™ Cover and the system shall be turned over to automatic computer control, as recommended by the manufacturer.
- (12) Composting of the Organic Waste in the Open Windrows process shall be done as follows:
- a. Unless otherwise approved in this Approval, receipt, pre-processing of the Organic Waste destined for processing in Open Windrows and Composting of the Organic Waste in the Open Windrow Composting shall be carried out in accordance with the Supporting Documentation.
 - b. The feedstocks for Composting in Open Windrow shall be mainly Leaf and Yard Waste, Wood, the Processed Organic Waste that has completed Phase II of the GORE™ Composting process and other approved less putrescible and less odourous Organic Waste.

- c. All incoming Organic Waste received outdoors for the purpose of Open Windrow Composting shall be incorporated into the windrows within 24 hours of its receipt at the Site, with the exception of the Wood and the Leaf and Yard Waste (leaves, branches and shrubs).
- d. The Leaf and Yard Waste and Wood destined for the Open Windrow Composting shall be accepted and stored in the Open Windrow Waste Sorting and Processing Area and incorporated into the Composting Process as needed and in accordance with the Supporting Documentation.
- e. Open Windrow Composting feedstocks shall be blended in the right ratios for Composting to obtain:
 - i. An initial carbon to nitrogen ratio (C:N Ratio) of approximately 25:1 to 30:1.
 - ii. A moisture content of 45% to 65%.
 - iii. An optimum porosity for even air distribution.
 - iv. A final density after pre-treatment of about 600 kg/m³.
- f. Open Windrow Composting windrows shall be turned as proposed in the Supporting Documentation, but not less frequently than recommended in the Ontario Compost Quality Guidelines.
- g. If between April through September, the Ministry receives public complaints that are caused by the storage of the Organic Waste destined for the Open Windrow Composting as allowed in Condition 4.4(2)d., the Owner shall incorporate The Organic Waste destined for the Open Windrow Composting causing odours into the Composting process immediately and the Organic Waste destined for the Open Windrow Composting subsequently received at the Site within four (4) days of its receipt or as agreed to by the District Manager.

(13) Curing of the Immature Compost shall be as follows:

- a. Curing shall commence when the Immature Compost has completed Active Composting in Phases I and II of the GORE™ Cover Composting System or the Open Windrow Composting process and has a slower rate of decomposition, lower biological activity and oxygen demand and is characterized by reduced temperatures, lower moisture content and lower odour generation potential than the previous phases of the Composting process.
- b. Following completion of Active Composting, the Immature Compost shall be moved to the outdoor Curing area, formed into windrows, and left to cure.
- c. Once Curing windrows are formed and the Curing duration is commenced, no new additional Immature Compost shall be added to the Curing windrows.
- d. Immature Compost windrows shall be turned in accordance with the frequency

set out in the Supporting Documentation, but not less frequently than required in the Ontario Compost Quality Guidelines.

- (14) If screening is required based on the Compost end-use requirements, screening of the Finished Compost shall be done as follows:
 - a. up-to four (4) screening plants are approved for use at the Site;
 - b. screening operations may be moved throughout the day and into different areas to accommodate efficient operation, as proposed in the Supporting Documentation.
- (15) Only clean water shall be used to increase moisture of the Organic Waste Mix undergoing Active Composting following the commencement of the Pasteurization Phase, the Immature Compost undergoing Curing, and for dust control purposes.
- (16) For each category of Compost produced at the Site, the progress of Composting through all of its stages shall be tracked.
- (17) Different categories of Compost shall be kept separated.
- (18) Wood be stored and shredded with a Mobile Grinder at a designated area referred to as the Grinding Pad.

4.5 Waste Storage

- (1) Should outdoor storage or management of any waste become a source of odour complaints, the Owner shall,
 - a. immediately move the waste causing complaints into the Receiving Building or ship the waste off-Site; or
 - b. manage the waste causing complaints as directed in writing by the District Manager.
- (2) During normal operation of the Site, the Owner shall ensure that all incoming putrescible Organic Waste, including SSO and Packaged Organic Waste, is received and temporarily stored within the confines of the Receiving Building, at all times.
- (3) Should an emergency situation prevent the Owner from receiving and temporarily storing the Organic Waste, listed in Condition 4.5(2), above, within the confines of the Receiving Building, the Owner shall, within twenty-four (24) hours from the occurrence of the outdoor receipt and storage of the Organic Waste, notify the District Manager, of the outdoor receipt and temporary storage.
- (4) As proposed in the Supporting Documentation, the Owner shall ensure that the

Residual Waste, including non-hazardous solid non-biodegradable waste and metal, is stored within the confines of a Receiving Building, at all times.

- (5) As proposed in the Supporting Documentation, the Owner shall ensure that metal is stored in containers.
- (6) All other incoming Organic Waste and the Amendment Materials intended for Composting may be stored outdoors in designated areas as set out in the Supporting Documentation.
- (7) The Owner shall ensure that all waste storage is undertaken in a manner that does not cause an Adverse Effect or a hazard to the environment or any person.
- (8) The Owner shall ensure that all loading, unloading and storage of any liquids at the Site is carried out in an area designed in accordance with the requirements in the Ministry's document entitled "Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities" dated May 2007, as amended.
- (9) In the event that the waste cannot be transferred from or processed at the Site and the Site is at its approved waste storage capacity, the Owner shall cease accepting additional waste. Receipt of additional waste may be resumed once such receipt complies with the waste storage limitations approved in this Approval.
- (10) All waste removed from the Site for Final Disposal shall only be disposed of at a Ministry-approved site or a site approved to accept such waste by an appropriate government agency of equivalent jurisdiction.

4.6 Prohibitions

- (1) Burning of any waste is prohibited at the Site.
- (2) No scavenging of waste is permitted at the Site.

4.7 Cross-Contamination Prevention

- (1) The Owner shall ensure that the incoming Organic Waste and the equipment used in handling of the incoming Organic Waste are kept separate and do not come in contact with the Immature Compost / the Finished Compost and Compost except where the Immature Compost / the Finished Compost and Compost are being fed back into the beginning of the Composting process.
- (2) The Owner may use equipment utilized in processing of incoming Organic Waste to process the Immature Compost / the Finished Compost and Compost provided that the equipment has been cleaned to prevent the Immature Compost / the Finished Compost and Compost from being contaminated by the incoming Organic Waste.

- (3) If the same equipment is used in production of different categories of Compost, the Owner shall ensure that the equipment is cleaned before use in a different process.
- (4) If the same equipment is used in management of different categories of Waste, the Owner shall ensure that the equipment is cleaned before use in a different process or a different Waste.
- (5) Unless otherwise required by this Approval the Owner shall follow the best management practices to minimize cross-contamination as proposed in the Supporting Documentation.

4.8 Wastewater/Leachate Management

- (1) The Owner shall ensure that storage, processing, Composting or other waste management activities are carried out only in areas identified in the Supporting Documentation and that these areas are adequately bermed and equipped with drainage, as required.
- (2) The Owner shall ensure that all run-off from the Composting areas is directed to the wastewater collection facility or is cleaned up to prevent accumulation of run-off in the Composting areas.
- (3) The Owner shall ensure that all wastewater run-off and/or leachate from any waste management activity carried out at the Site is not discharged into the municipal drains, or any other natural drain or watercourse unless approved by the Ministry and all wastewater and/or leachate generated at the Site is managed, discharged and monitored in accordance with the environmental compliance approval, as required.
- (4) Composting leachate produced in the Phases I and II portions of the Composting process the GORETM Cover Composting System shall be collected in the trench system and two (2) double-walled, High Density Cross-linked Polyethylene, storage tanks.
- (5) Composting leachate may only be used within the Receiving Building to increase moisture in the incoming feedstocks or be re-introduced to the Composting process to provide moisture prior to commencement of the Pasteurization Phase.
- (6) If excessive Composting leachate is produced in the process, the leachate shall be transferred off-Site to facilities approved by the Ministry to receive the leachate, including transfer into the Landfill leachate management system at the Site leading to an off-Site destination.
- (7) When the Site commences producing leachate for the end-use as a Fertilizer, a minimum of six (6) months prior to the first transfer off-site, the Owner shall submit to the District Manager, copies of agreements for the transfer and storage of the leachate off-Site, which are signed by the owners of the off-Site storage locations

and include the owner's total leachate storage volume that is constructed, readily-available and designated strictly for the Site's leachate for the minimum storage duration required to comply with the Fertilizer label land application rates.

4.9 Stormwater Management

- (1) Stormwater run-off from the hard surfaces of the GORE™ Cover Composting System pads and leachate and stormwater from the open windrow Composting area shall be collected in one (1)-9,359 m³ stormwater pond.
- (2) The Owner shall construct, operate and maintain the stormwater pond in accordance with the Supporting Documentation.
- (3) The Owner shall operate and maintain surface aerators and/or a windmill in accordance with the Supporting Documentation.
- (4) Stormwater may be re-introduced into the Composting process to provide moisture prior to commencement of the Pasteurization Phase, unless the stormwater is tested for pathogens to verify compliance with the Compost Standards for pathogens.
- (5) The connection at the end of the pond may be opened, when required, allowing for the discharge to flow into the Landfill's leachate collection system which discharges into the municipal sewer.

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. waste loading/unloading/storage areas including the condition of the Receiving Building and its ventilation system and the air pollution control equipment;
 - b. condition of all major pieces of the Organic Waste processing equipment;
 - c. condition of the Composting Site, including and the Gore™ Composting Systems area, the Open Windrow Composting area and the Curing area;
 - d. condition of the containment area for the temporary storage of the Liquid Waste;
 - e. condition of all instruments including but not limited to the instruments for monitoring the Composting process parameters;
 - f. condition of the outdoor Waste storage areas;
 - g. security fence and property line;
 - h. presence of excessive fugitive dust emissions from the operation of the Site;
 - i. presence of the on and off-Site litter;
 - j. presence of vector and vermin;

- k. presence of off-Site odours; and
- l. condition of run-off drainage, collection and storage facilities.

- (2) 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 Critical 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 Preventative Maintenance:

- (1) The Owner shall develop and implement a preventative maintenance program for all on-Site equipment associated with the processing and managing of waste and control of odour, noise and dust emissions. The preventative maintenance program shall be maintained up-to-date, be retained at the Site and be available for inspection by a Provincial Officer, upon request.

6.0 COMPOST QUALITY STANDARDS and CRITERIA and FERTILIZER Quality REQUIREMENTS

6.1 Incoming Organic Waste (Feedstock) Quality Standards

- (1) The incoming Organic Waste (Feedstock) received at the Site shall not exceed the maximum concentrations for metals listed in the Standards Document, for the intended end use category of Compost.

6.2 Compost Quality Standards

Metals in Compost

- (1) Compost shall not contain regulated metals in a concentration that exceeds any of the limits set out in the Standards Document, for the intended end use category of Compost.

Maturity

- (2) Compost shall comply with the maturity requirements set out in the Standards Document, for the intended end use category of Compost.

Pathogen Reduction

- (3) Compost shall comply with the pathogen reduction requirements set out in the Standards Document, for the intended end use category of Compost.

Total Foreign Matter Content and Sharp Foreign Matter

- (4) Compost shall comply with the total foreign matter content and sharp foreign matter content limits set out in the Standards Document, for the intended end use category of Compost.

6.3 Fertilizer Quality Requirements

- (1) If the leachate is managed as a material destined for land application on agricultural land as a Fertilizer, the leachate shall comply with requirements set out in "Trade Memorandum T-4-93 - Safety standards for fertilizers and supplements" for Fertilizer, as applicable, unless otherwise required by the Canadian Food Inspection Agency.
- (2) Notwithstanding provisions of Condition 6.3(1), the leachate shall also comply with the following:
 - a. Foreign Matter shall not exceed 2% calculated on a dry basis;
 - b. plastics shall not exceed 0.5% calculated on a dry basis, and
 - c. there shall not be any particles of any material that will pass through a screen whose largest opening has an area of 2.5 cm².

7.0 PROCESSING CRITERIA and MONITORING

7.1 Composting Recipe Criteria

Carbon to Nitrogen Ratio (C:N Ratio)

- (1) For GORE™ Cover Composting System, the Owner shall ensure that the Carbon to Nitrogen Ratio (C:N Ratio) of the Organic Waste Mix prior to its incorporation into the Composting process is maintained at a level set out in the Supporting Documentation, at all times.
- (2) For Open Windrow Composting, the Owner shall ensure that the Carbon to Nitrogen Ratio (C:N Ratio) of the Organic Waste Mix prior to its incorporation into the

Composting process is maintained at 25:1 to 30:1 as set out in the Supporting Documentation, at all times.

Moisture

- (3) The Owner shall ensure that the moisture content of the Organic Waste Mix prior to its incorporation into the GORE™ Cover Composting System is maintained between 40% and 60%, with the target of 50%, at all times.
- (4) The Owner shall ensure that the moisture content of the Organic Waste Mix prior to its incorporation into the Open Windrow Composting process, is maintained between 40% and 55%, with the target of 50%, at all times.

Porosity and Bulk Density

- (5) The Owner shall ensure that prior to its incorporation into the Composting process, the Organic Waste Mix has the appropriate porosity and bulk density to promote aerobic conditions.

Changes to the Composting Recipe Criteria

- (6) The Owner shall ensure that no changes to the Composting Recipe Criteria, as listed in Conditions 7.1(1) through 7.4(4) above, are undertaken unless with a prior written concurrence of the District Manager.

7.2 Active Composting Oxygen Content

- (1) The Owner shall ensure that the oxygen content of the Organic Waste Mix undergoing Active Composting is sufficient to prevent the Composting Organic Waste Mix from becoming anaerobic at any one time, and within the target oxygen range of 6% to 16%.
- (2) Monitoring of the oxygen content of the Organic Waste Mix undergoing Active Composting in the GORE™ Cover Composting System and in the Open Windrow Composting process shall be carried out with the oxygen sensors and in accordance with the procedures set out in the Supporting Documentation.
- (3) Within one (1) hour of identifying the oxygen content excursions below the oxygen content at or below 5%, the Owner shall initiate appropriate remedial measures to increase the oxygen content of the Organic Waste Mix undergoing Active Composting.

7.3 Moisture Content

- (1) The Owner shall ensure that the moisture content of the Organic Waste Mix undergoing Active Composting in the GORE™ Cover Composting System is

maintained between 40% and 60%, at all times.

- (2) The Owner shall ensure that the moisture content of the Organic Waste Mix undergoing Active Composting in the Open Windrow Composting process is maintained between 40% and 55%, at all times.
- (3) Monitoring of the moisture content shall be carried out in accordance with the procedure set out in the Supporting Documentation unless otherwise set out in this Approval.
- (4) Despite provisions of Condition 7.3(3),
 - a. for the purpose of controlling the moisture content within the Immature Compost in the Curing windrows, the Owner may also use the squeeze test in accordance with the document entitled "Best Practices for Operating an Aerated Windrow Composting Facility", prepared by The Compost Council of Canada for Manitoba Conservation and Water Stewardship, dated 2016; and
 - b. for the purpose of verifying compliance with the maturity standard moisture requirement, the Owner shall test the moisture level within the Immature Compost in the Curing windrows using the procedure(s) set out in the BNQ Industry Standard, CAN/BNQ 0413-200/2016 *Organic soil conditioners - Compost*, as amended.
- (5) From each processing windrow within the GORE™ Cover Composting System, the Owner shall collect a minimum of ten (10) grab samples of the waste at the start or the end of each phase of Composting unless the BNQ Industry Standard, CAN/BNQ 0413-200/2016 *Organic soil conditioners - Compost* requires more samples for each testing event.
- (6) The samples shall be collected from the waste in the sections of the windrows as they are progressively constructed and de-constructed and they shall represent the full depth profile of the windrow, starting at the location one (1) metre from the surface and including locations in the middle and bottom of the windrow.
- (7) The Owner shall sample for the moisture content of the Organic Waste Mix undergoing Active Composting in the Open Windrow Composting process and of the Immature Compost during Curing, on a weekly basis.
- (8) The Owner shall ensure that the moisture testing from Condition 7.3(4)b. is representative of the Curing conditions at any time.
- (9) Only clean water shall be used to increase the moisture level of the Organic Waste after the start of the Pasteurization Phase of Active Composting and for dust control purposes.

7.4 Temperature

- (1) The Owner shall ensure that during the Pasteurization Phase, the temperature of the Composting Organic Waste Mix within the GORE™ Cover Composting System windrows, as measured in accordance with this Approval, is maintained at a minimum pasteurization temperature of 55 degrees Celsius for at least three (3) cumulative days to inactivate pathogens.
- (2) Should the Owner choose to comply with the pasteurization temperature and residency time requirements from the Standards Document within in the Open Windrow Composting windrows, the Owner shall ensure that during the Pasteurization Phase, the temperature of the Composting Organic Waste Mix within the Composting windrows, as measured in accordance with this Approval, is maintained at a minimum pasteurization temperature of 55 degrees Celsius for at least fifteen (15) cumulative days to inactivate pathogens.
- (3) In the Open Windrow Composting process, for sections of the windrow constructed during the same time period, the temperature readings shall be taken every fifteen (15) metres along the length of the windrow section or at six (6) representative locations, whichever method yields more locations.
- (4) The temperature reading(s) in the GORE™ Cover Composting System windrows shall be taken in the location(s) that will provide representative pasteurization temperature reading(s) as described in the Supporting Documentation.
- (5) Where continuous automated temperature monitoring is used, the compliance with the pasteurization requirement may be demonstrated on the basis of daily averages using all data points acquired over a twenty-four (24) hour period.
- (6) The Owner shall ensure that following the Pasteurization Phase, the temperature of the Composting Organic Waste Mix is maintained at the level set out in the Supporting Documentation and that within four (4) hours of identifying the temperature excursions above this level, appropriate remedial measures to lower the Composting temperature to the required level are initiated.
- (7) Temperatures shall be measured at a depth of one (1) metre from the surface of the Composting Organic Waste Mix mass or the Immature Compost Curing mass.
- (8) Except for the Immature Compost Curing carried out under the Gore™ covers, the temperature of the Immature Compost Curing windrows shall be measured and recorded at least weekly.
- (9) For Curing of the Immature Compost carried out under the Gore™ covers, the temperature within the Curing windrows shall be measured and recorded in accordance with the procedure set out in the Supporting Documentation.

8.0 TESTING

8.1 General Requirements for Testing of Feedstock and Finished Compost

- (1) The Owner shall maintain a Quality Assurance/Quality Control (QA/QC) program for sampling and analysis of the Feedstock and the Finished Compost, as required by this Approval, and shall make the results of the QA/QC program, including all analyses carried out by an accredited laboratory service provider, available for inspection upon request by the District Manager, the Director and any Provincial Officer.
- (2) All required analytical results shall be from a laboratory service provider accredited by a Canadian Association for Laboratory Accreditation or equivalent.

Sample Preparation and Testing Methods and Procedures

- (3) The Owner shall contact their laboratory service provider for recommended sample preparation methods, sample containers, and other materials and instructions for sample collection and handling and shall prepare a written sampling protocol. This protocol shall be made available to the Ministry staff, upon request.
- (4) The Feedstock and the Finished Compost sampling/composite sample preparation and testing methods and procedures shall be as set out in Appendix 1 and Appendix 2 of the Standards Document.

Re-testing

- (5) Re-testing due to sample failure is as set out in the Standards Document.

8.2 Testing of Incoming Organic Waste (Feedstock)

- (1) The Owner shall ensure that all incoming Organic Waste is characterized in accordance with the requirements of this Approval.
- (2) If the Owner relies on the published data for the well-studied/characterized Organic Waste, the latest published information shall be used to confirm that the incoming Organic Waste received at the Site and are destined to be processed into Compost at the Site comply with the Feedstock standards from the Standards Document.
- (3) If the published data is not available or used to confirm compliance of the incoming Organic Waste with the Feedstock standards from the Standards Document, the Owner shall:
 - a. establish the incoming Organic Waste sampling/testing protocol as set out in Appendix 1 and Appendix 2 of the Standards Document;

- b. sample and analyze representative samples of the incoming Organic Waste to be received at the Site prior to receipt at the Site;
- c. sample the incoming Organic Waste on a monthly basis for a period of one (1) year or until a consistent characteristic profile is obtained or for Organic Waste which are received less frequently than monthly, sample each incoming load for a period of one (1) year, or until a consistent characteristics profile is obtained; and
- d. sample the incoming Organic Waste when the characteristics of the Organic Waste have changed.

- (4) Notwithstanding provisions of Condition 8.2(3), above, the Owner shall periodically sample the incoming Organic Waste for which consistent characteristics have been obtained to confirm that the Organic Waste has not changed.
- (5) If at any time, the average concentration of any regulated metal in the Finished Compost is found to be greater than 80% of the concentration limit for Compost set out in Condition 6.1, the Owner shall carry out an investigation, including testing of the incoming Organic Waste, to determine the source and the cause of the elevated metal concentration.
- (6) Based on demonstrated compliance with the Feedstock characterization requirements from Conditions 8.2(1) through 8.2(5), the Owner may designate the generator as a pre-approved source.

8.3 Sampling/Testing of the Finished Compost

- (1) Prior to being transferred from the Site for its intended end use, the Owner shall
 - a. conduct quality control testing of the Finished Compost in accordance with the requirements set out in the Standards Document and listed in Conditions 6.2(1) through 6.2(4), above; and
 - b. ensure that all Composting records demonstrate compliance with the temperature and residency time requirements for pathogen inactivation set out in the Standards Document and listed in Condition 6.2(3), above.

9.0 COMPLIANCE WITH COMPOST QUALITY STANDARDS and DISPOSAL and/or RE-USE REQUIREMENTS

9.1 Compliance with Compost Quality Standards

- (1) Finished Compost is considered to be Compost when it complies with Compost Quality Standards for the intended end use category.

- (2) Prior to Compost being transferred from the Site for its intended end use, the Owner shall ensure that all Composting records demonstrate compliance with the temperature and residency time requirements for pathogen inactivation set out in the Standards Document.

9.2 Non-compliance with Compost Quality Standards:

- (1) Finished Compost is a non-exempted waste until sampling/testing required by this Approval demonstrates that all Compost Quality Standards specified in this Approval are met.
- (2) The Owner shall segregate the Immature Compost at various stages of Curing until all Compost Quality Standards specified in this Approval are tested for and met for the production of Compost.
- (3) The Finished Compost which does not exceed the maximum concentrations for metals as set out in Column 2 of Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the maturity criteria, the pathogen reduction requirements and the pasteurization temperature and residency time requirements set out in the Standards Document may be transferred off Site:
 - a. for unrestricted use as Category AA Compost; or
 - b. for use as a NASM in accordance with the NMA.
- (4) The Finished Compost which does not exceed the maximum concentrations for metals as set out in Column 3 of Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the maturity criteria, the pathogen reduction requirements and the pasteurization temperature and residency time requirements set out in the Standards Document may be transferred off Site:
 - a. for unrestricted use as Category A Compost, provided that the labelling requirements as specified in the Standards Document are met; or
 - b. for use as a NASM in accordance with the NMA.
- (5) The Finished Compost which does not exceed the maximum concentrations for metals as set out in Column 4 of Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the maturity criteria, the pathogen reduction requirements and the pasteurization temperature and residency time requirements set out in the Standards Document may be transferred off Site:
 - a. for use as a NASM in accordance with the NMA; or
 - b. for use at a waste disposal facility approved to receive this type of waste.

- (6) The Finished Compost which does not exceed the maximum concentrations for metals as set out in Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the pathogen reduction requirements and the pasteurization temperature and residency time requirements but not with the maturity requirements set out in the Standards Document is considered to be an Immature Compost and a waste and shall:
- a. be re-tested and/or shall continue to undergo Curing at the Site; or
 - b. be disposed of as waste at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.
- (7) The Finished Compost which does not exceed the maximum concentrations for metals as set out in Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the maturity requirements but not with the pathogen reduction requirements and the pasteurization temperature and residency time requirements set out in the Standards Document is considered to be a waste and shall:
- a. be returned to the Composting process for pasteurization as set out in this Approval; or
 - b. be disposed of as waste at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.
- (8) If the Finished Compost exceeds the maximum concentrations for metals in Compost for its intended end use, as set out in Table 3.1 of the Standards Document, but meets the maximum concentrations for metals in the Feedstock listed in Table 3.2 of the Standards Document, subject to compliance with the records-keeping requirements set out in Condition 15.0, it may be returned to the Composting process as waste for re-processing to produce a different category Compost.

10.0 ENVIRONMENTAL IMPACT CONTROL and HOUSEKEEPING

- (1) The Owner shall ensure that all waste, including Compost handling activities, turning of the processing windrows are only undertaken during favourable wind conditions.

10.1 Odour Management

- (1) Unless otherwise required by this Approval, the Owner shall control odour emissions from the Site in accordance with the Supporting Documentation.
- (2) The Owner shall implement appropriate housekeeping procedures, including regular cleaning of the Organic Waste handling equipment to minimize emissions of odour from the Organic Waste handling areas.
- (3) The Owner shall maintain a negative air pressure atmosphere within the Receiving

Building at all times or as required by the Air/ Noise Approval.

- (4) The Owner shall ensure that, at all times when the Organic Waste is in the Receiving Building, the air from the Receiving Building is exhausted through an appropriate air pollution control equipment approved by the Ministry in the Air/ Noise Approval.
- (4) The Owner shall ensure that the doors of the Receiving Building are kept closed at all times except to permit the entry or exit of persons and/or processing/maintenance/waste transport equipment.

10.2 Litter

- (1) The Owner shall:
 - a. take all necessary steps to prevent the escape of litter from the Site;
 - b. pick up litter at the Site on a daily basis, or more frequently if necessary;
 - c. if necessary, erect litter fences around the areas causing a litter problem; and
 - d. weekly, or more frequently as necessary, pick up off the Site litter which can reasonably be determined to have originated from the Site.

10.3 Dust

- (1) The Owner shall ensure that all on-site roads and operations/yard areas are regularly wetted with clean water or swept to prevent dust impacts off-Site.
- (2) The Owner may use the wastewater, collected at the Site, to wet the Composting windrows prior to the start of the Pasteurization Phase of Composting, only if the use of the wastewater does not result in odorous discharges to the natural environment.
- (3) Following the commencement of the Pasteurization Phase, the Owner shall use only clean water to wet the Composting windrows.

10.4 Vermin and Vectors

- (1) The Owner shall implement necessary housekeeping procedures to eliminate sources and potential sources of attraction for vermin and vectors.
- (2) If the Owner-initiated program is ineffective, the Owner shall hire a qualified, licensed pest control professional to design and implement a pest control plan for the Site. The pest control plan shall remain in place, and be updated from time to time, as necessary.
- (3) If at any time the Organic Waste or the Organic Waste undergoing processing

creates a negative impact, including but not limited to attraction to vermin and vectors, and the remedial measures cannot successfully mitigate the impacts within seven (7) days, the Owner shall forthwith remove the Organic Waste or the Organic Waste undergoing processing causing the negative impact for disposal at an approved waste disposal site.

10.5 Vehicles and Traffic

- (1) The Owner shall ensure that all vehicles transporting waste from the Site are not leaking or dripping waste or wastewater when leaving the Site.
- (2) The Owner shall control the drag out of mud or waste onto the public roadways, and promptly clean up any drag out of mud or waste from Site operations.
- (3) Should the Owner become aware that a vehicle delivering Organic Waste to the Site has leaked wastewater on the municipal roadways, the Owner shall immediately report the violation to the owner of the vehicle(s) and to the District Manager.
- (4) Queuing of vehicles that are waiting to enter the Site on any roadway that is not a distinct part of the Site is permitted provided that this queuing does not cause a risk to the health and safety of the roadway users and that it does not negatively impact the business along the queuing route.
- (5) Despite provisions of Condition 10.5(4), the Owner shall ensure that a Trained Personnel is available and directs traffic on the municipal roadway in front of the Site during the operating hours if queuing of vehicles causes a risk to the health and safety of the roadway users or negatively impacts the business along the queuing route.
- (6) The Owner shall ensure that vehicles transporting waste and Compost from the Site are appropriately covered as they depart the Site, so that fugitive dust or odour emissions are minimized during the transport to their next destination.

11.0 COMPLAINT MANAGEMENT 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 or the Environmental Compliance Officer. 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;
- d. Step 4: Response to the complainant, the District Manager or the Environmental Compliance Officer - The Owner shall forward a reply to the complainant, if complainant is known, and to the District Manager or the Environmental Compliance Officer, 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 measures taken as per Condition 11.0(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, including but not limited to the following:
- a. reduction in the receipt of the waste;
 - b. cessation of the receipt of the waste;
 - c. removal and off-site disposal of waste; and
 - d. repairs or modifications to the equipment or processes at the Site.

12.0 OPERATIONS MANUAL and PERSONNEL TRAINING

12.1 Operations Manual

- (1) Within three (3) months from the date of this Approval or as acceptable to the District Manager, the Owner shall prepare an Operations Manual for the Site. As a minimum, the Operations Manual shall contain the following:
- a. outline of the responsibilities of the Site personnel;
 - b. personnel training protocols;
 - c. operating and maintenance procedures for the Composting Site, including but not limited to Organic Waste receiving and screening procedures, unloading, handling and storage procedures and waste processing procedures, including preparation of the Organic Waste Mix, the aerobic Composting in the GORE™ Cover Composting System and in the Open Windrows Composting process, Curing of the Immature Compost and screening of the Finished Compost and Wood handling areas and equipment;
 - d. care and operating and maintenance procedures for the Landfill;
 - e. sampling, testing, monitoring and recording procedures for the Site as required by this Approval;
 - f. required data recording procedures;
 - g. emergency response procedures including an outline of the responsibilities of Site personnel including roles and responsibilities during emergency situations, exit locations and evacuation routing, and locations of relevant equipment available for handling of the emergency situations;
 - h. the contingency plans for the Site;
 - i. equipment and Site inspection procedures, as required by this Approval;
 - j. nuisance impact control and housekeeping procedures, as required by this Approval; and
 - k. the procedures for handling and recording complaints as described in this

Approval.

- (2) A copy of the Manuals referred to in Condition 12.1(1) shall be kept at the Site, must be accessible to Site personnel at all times and must be updated, as required.

12.2 Personnel Training

- (1) All Site personnel shall be trained with respect to the following:
 - a. operation and management of the Site, or area(s) within the Site, as per the specific job requirements of each individual operator in accordance with the Manual required by Condition 12.1, above;
 - b. terms and conditions of this Approval, relevant to the specific job requirements of each individual operator in accordance with the Manual required by Condition 12.1, above;
 - c. environmental, and occupational health and safety concerns pertaining to the wastes to be handled;
 - d. emergency first-aid information; and
 - e. relevant waste management legislation and regulations, including the EPA and Regulation 347.
- (2) The Owner shall ensure that all employees at the Site are trained in the requirements of this Approval relevant to the employee's position:
 - a. upon commencing employment at the Site in a particular position; and
 - b. whenever items listed in Condition 12.2(1) are changed or during the planned refresher training.

13.0 EMERGENCY RESPONSE and CONTINGENCY PLAN

- (1) The Owner shall maintain the existing Emergency Response and Contingency Plan for the Site. Any future revisions to the Emergency Response and Contingency Plan shall be prepared in consultation with the District Manager. The Owner shall also invite the local municipality and the local Fire Department to provide input and/or comments into preparation of the Emergency Response and Contingency Plan. The Emergency Response and Contingency Plan, as a minimum shall include the following:
 - a. emergency response procedures to be undertaken in the event of a spill, process upset, power failure, fire or any other emergency situation, including specific clean up methods for wastes expected to be generated from the emergency situation;

- b. a list of equipment and clean up materials available for dealing with the emergency situations and their locations on the Site plan;
 - c. 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;
 - d. procedures and actions to be taken should the incoming Organic Waste not meet the quality criteria set out in this Approval;
 - e. procedures and actions to be taken should the outgoing Residual Waste not meet the quality criteria set out in the receiving site environmental compliance approval;
 - f. procedures and actions to be taken should the Composted Organic Waste fail to meet the required Compost Quality Standards;
 - g. procedures and actions to be taken should the temporary storage of the Organic Waste at the Site result in occurrence of complaints;
 - h. procedures and actions to be taken should the occurrence of complaints require the Owner to implement additional odour control measures;
 - i. procedures and actions to be taken should the occurrence of complaints require the Owner to suspend waste processing activities at the Site; and
 - j. procedures and actions to be taken should there be an occurrence of malfunction of equipment and infrastructure to operate, manage and monitor the closed Landfill area;
 - k. procedures and actions to be taken should the Recipe Mix Criteria set out in this Approval not be met.
- (2) An up-to-date version of the Emergency Response and Contingency Plan shall be kept at the Site, in a central location known and available to all Site personnel. A copy shall be made available to Ministry staff upon request and to the local municipality and the local Fire Department, if requested.
- (3) The Emergency Response and Contingency Plan shall be reviewed on an annual basis and updated, if necessary. The revised version of the Emergency Response and Contingency Plan shall be provided to the District Manager and to the local municipality and the Fire Department, if requested.

14.0 EMERGENCY SITUATIONS RESPONSE and REPORTING

- (1) The Owner shall immediately take all necessary measures, as set out in the Emergency Response and Contingency Plan, to handle the emergency situations occurring at the Site.
- (2) The Owner shall ensure that the equipment and materials outlined in the Emergency Response and Contingency 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 Emergency Response and Contingency 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 to the local municipality, and shall be recorded in the log book or as a digital record, 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 District 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.

15.0 RECORDS KEEPING

15.1 Activities at the Site

- (1) The Owner shall maintain a 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 information:
 - a. date, quantity, source and type of the Organic Waste at the Site;
 - b. analytical data from testing of the incoming Organic Waste or the published data and justification for using the published data;
 - c. date, quantity, type, quality (including the analytical data from any compliance testing) and the destination of Compost, by each category, transferred from the Site;
 - d. date, quantity, type, quality (including the analytical data from any compliance testing) and the destination of Finished Compost that was transferred back to the Composting process to produce a different category of Compost;
 - e. date, quantity, type and the destination of the total Residual Waste, transferred from the Site for final disposal;
 - f. date, quantity, type and the destination of the Rejected Waste transferred off-Site and the reason for rejection;
 - g. date, quantity, type and the destination of the Composting leachate transferred off-Site;

- h. waste processing activities undertaken at the Site, including shredding and grinding of waste, windrow construction, addition of moisture and turning activities, Finished Compost screening;
- i. monitoring and sampling activities;
- j. housecleaning activities;
- k. receipt of Organic Waste outside of the normal receipt hours;
- l. running total of the Organic Waste temporarily stored prior to Composting, the Organic Waste Mix undergoing Composting, Immature Compost, the Finished Compost, the Residual Waste, the Rejected Waste and the Compost present at the Site; and
- m. temperature and/or oxygen content excursions outside of the required levels.

15.2 Emergency Situations

- (1) The Owner shall maintain a 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 spilled material was cleaned up and waste stored, if generated; and
 - e. the location and time of final disposal, if applicable.

15.3 Inspections

- (1) The Owner shall maintain a 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.

15.4 Personnel Training

- (1) The Owner shall maintain a 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.

15.5 Sampling and Testing Records

- (1) The Owner shall establish and maintain a written or digital record of all sampling and testing activities at the Composting 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. name of the person undertaking the sampling;
 - e. parameters tested for and the results;
 - f. name of the laboratory service provider facility conducting the testing, if applicable; and
 - g. conclusions drawn with respect to the results of the monitoring and testing.

15.6 Monitoring Records

- (1) The Owner shall establish and maintain a written or digital record of all monitoring activities at the Composting Site as required by this Approval. This record shall include, as a minimum, the following information:
 - a. temperature in the active Composting and curing windrows;
 - b. the oxygen levels in the active Composting and curing windrows; and
 - c. moisture levels in the active Composting and curing windrows.

15.7 Complaints Management Records

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

15.8 Annual Report

- (1) The Owner shall submit the 2024 Annual Report to the District Manager by March 31, 2025.
- (2) Starting in September 2026, the 2025 Annual Report shall be submitted to the District Manager by September 30, 2026.
- (3) The Annual Report shall be in a format or formats acceptable to the District Manager and it shall summarize the operation of the Composting Site covering the previous calendar operating year and since the last reporting period.
- (4) This Annual Report shall include, as a minimum, the following information:
 - a. plan(s) showing significant Site features such as Site boundary, roads, gates, surface water features, ponds, ditches, sampling and monitoring location and the Composting Site features;
 - b. general description of the Composting Site operations;

- c. annual amount of the Organic Waste received and processed at the Composting Site, including the waste type, quantity and sources;
- d. annual amount and quality of Compost transferred from the Composting Site and its final destination;
- e. annual amount of the Composting leachate transferred from the Composting Site and its final destination;
- f. a summary describing any Rejected Waste including quantity, waste type, reasons for rejection and origin of the Rejected Waste;
- g. annual amount of the Residual Waste transferred from the Composting Site for Final Disposal and its destination;
- h. number of Composting and Curing windrows and the status of processing at the end of the operating year;
- i. amount of unprocessed Organic Waste temporarily stored at the Composting Site at the end of the operating year;
- j. amount of Compost temporarily stored at the Composting Site at the end of the operating year;
- k. results of sampling and testing at the Composting Site;
- l. any changes to the Emergency Response and Contingency Plan, the Operations Manual or the Closure Plan that have been made to or approved by the Director or the District Manager since the last Annual Report;
- m. any environmental and operational problems, that could negatively impact the environment, encountered during the operation of the Composting Site or identified during the inspections and any mitigative actions taken;
- n. any recommendations to minimize environmental impacts from the operation of the Composting Site and to improve the Composting Site operations;
- o. a summary of any complaints received and the responses made, as required by this Approval;
- p. a descriptive summary of any spills, incidents or other emergency situations which have occurred at this Composting Site, any remedial measures taken, and the measures taken to prevent future occurrences;
- q. an annual summary of any deficiencies, items of non-compliance or process aberrations that occurred at this Composting Site and any remedial/mitigative action taken to correct them;
- r. Financial Assurance amount for the Composting Site as approved in the most recent Approval;
- s. a condition-by-condition analysis of compliance with all Approval conditions related to the Composting Site; and
- t. any other information with respect to the Composting Site which the District Manager may require from time to time.

- (5) The Owner shall keep a copy of the latest Annual Report at the Site, at all times.

15.9 Triennial Landfill Monitoring Report

- (1) By September 30, 2026 and every three (3) years thereafter, the Owner shall prepare and submit to the District Manager, a Triennial Landfill Monitoring Report, prepared by a

Professional Engineer or a Professional Geoscientist, summarizing the monitoring results of the Closed West Landfill covering the previous three (3) calendar years and any operation and maintenance activity carried out at the Landfill during that same time period.

- (2) The Triennial Landfill Monitoring Report shall include, as a minimum, the following information:
- a. plan(s) showing significant Site features such as Site boundary, roads, gates, surface water features, seeps, ponds, ditches, sampling and monitoring location, limits of final cover and vegetative cover and all existing Landfill features, including the engineered facilities;
 - b. general description of the Landfill including date of closure, volume of waste, type of cover material or liner;
 - c. regional mapping (1:10,000 or 1:20,000) indicating local and site-specific surface drainage, the nearest wells and surface water receptors and reference to local zoning and planning;
 - d. description of any Landfill final cover or maintenance works completed at the Landfill during the reporting period;
 - e. discussion of any Landfill closure or maintenance problems encountered at the Landfill and corrective actions taken;
 - f. a summary of inspections undertaken at the Site;
 - g. construction and/or installation of any new engineered facilities for the Landfill;
 - h. any changes to the applicable Plans and Manuals or the Closure Plan related to the Landfill that have been made to or approved by the Director or the District Manager since the last Triennial Landfill Monitoring Report;
 - i. any environmental and operational problems, that could negatively impact the environment, encountered during the operation of the Landfill or identified during the inspections and any mitigative actions taken;
 - j. any recommendations to minimize environmental impacts related to the Landfill and to improve management of the Landfill;
 - k. a summary of any complaints related to the Landfill received and the responses made, as required by this Approval;
 - l. a descriptive summary of any spills, incidents or other emergency situations related to the Landfill which have occurred, any remedial measures taken, and the measures taken to prevent future occurrences;
 - m. a summary of any deficiencies, items of non-compliance or process aberrations related to the Landfill that have occurred and any remedial/mitigative action taken to correct them;
 - n. Financial Assurance amount for the Landfill as approved in the most recent Approval;
 - o. a condition-by-condition analysis of compliance with all Approval conditions related to the Landfill;
 - p. a discussion of the geology and hydrogeology of the Landfill;
 - q. a groundwater contour map showing the groundwater elevations for each well and groundwater flow direction;

- r. a copy of the borehole logs for all groundwater monitoring wells;
- s. general description of the current groundwater, surface water and landfill gas monitoring programs;
- t. a discussion regarding the quality assurance and quality control programs and any difficulties encountered;
- u. a table summarizing historical and current analytical results for parameters sampled for;
- v. hydrographs and tables summarizing all historical and current water data;
- w. the results and an interpretive analysis of groundwater, leachate, surface water and stormwater, and combustible gas monitoring, including an assessment of the need to amend the monitoring programs or for implementation of any contingency measures at the Landfill;
- x. a copy of the original laboratory analytical results (may be provided electronically);
- y. a report on the status of all monitoring wells and a statement as to compliance with Regulation 903;
- z. recommendations regarding any proposed changes in monitoring of the Landfill and specifically the need for any additional down gradient wells; and
- aa. any other information with respect to the Landfill which the District Manager or the Regional Director may require from time to time.

16.0 LANDFILL Post-Closure OPERATION, MAINTENANCE and MONITORING

16.1 Post-Closure Operation and Maintenance

- (1) The approved Landfill is now closed and no waste shall be accepted at this Site for landfilling.
- (2) The Owner shall operate and maintain the existing Landfill leachate management systems in accordance with the Supporting Documentation.

16.2 Compliance

- (1) The closed Landfill shall be operated and maintained in such a way as to ensure compliance with the following:
 - a. Reasonable Use Guideline B-7 for the protection of the groundwater at the Site;
 - b. Provincial Water Quality Objectives included in the July 1994 publication entitled Water Management Policies, Guidelines, Provincial Water Quality Objectives, as amended from time to time or limits set by the Regional Director, for the protection of the surface water at and off the Site; and
 - c. Ontario Drinking Water Quality Standards.

16.3 Landfill Gas Monitoring

- (1) The Owner shall monitor Landfill gas in accordance with Schedule 3.
- (2) The Owner shall ensure that any buildings or structures at the Site contain adequate ventilation systems to relieve any possible Landfill gas accumulation to prevent methane concentration reaching the levels within its explosive range.
- (3) Routine monitoring for explosive methane gas levels shall be conducted in all buildings or structures at the Site, especially enclosed structures which at times are occupied by people.

16.4 Surface Water and Groundwater Monitoring

- (1) The Owner shall monitor surface water and groundwater in accordance with the monitoring programs outlined in Schedules 2, 3 and 4.
- (2) A certified Professional Geoscientist or Engineer possessing appropriate hydrogeologic training and experience shall execute or directly supervise the execution of the surface water and groundwater monitoring and reporting program.

16.5 Groundwater Wells and Monitors

- (1) The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.
- (2) Where the Composting Site activities or the activities related to the post-closure operation, maintenance or monitoring of the landfill are to proceed around monitoring wells, suitable extensions shall be added to the wells and the wells shall be properly re-secured.
- (3) Any groundwater monitoring well included in the on-going monitoring program that is damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.
- (4) The Owner shall repair or replace any monitoring well which is destroyed or in any way made to be inoperable for sampling such that no more than one regular sampling event is missed.
- (5) All monitoring wells which are no longer required as part of the groundwater monitoring program, and have been approved by the Director for abandonment, shall be decommissioned by the Owner, as required, in accordance with Regulation 903, to prevent contamination through the abandoned well. A report on the decommissioning of the well shall be included in the Triennial Landfill Monitoring Report for the period during which the well was decommissioned.

16.6 Trigger Mechanisms and Contingency Plans for Landfill

- (1) Within one (1) year from the date of this Approval, the Owner shall submit to the District Manager, a plan for trigger mechanisms for surface water and groundwater quality monitoring for the purpose of initiating investigative activities into the cause of increased contaminant concentrations.
- (2) Within one (1) year from the date of this Approval, the Owner shall submit to the District Manager, a contingency plan to be implemented in the event that the surface water or groundwater quality exceeds any trigger mechanism.
- (3) The contingency plan shall include, but not be limited to the following actions if the trigger mechanism is activated:
 - a. performing supplemental/confirmatory sampling to confirm analytical results within one (1) month of collection of the original sample;
 - b. assessing the potential source(s) and evaluating the potential extent of contaminants causing the exceedance;
 - c. adding wells to delineate the plume, if necessary;
 - d. conducting a root cause/effect analysis and developing a mitigation plan; and
 - e. providing in the mitigation plan a description of the preferred remedial methods or mitigation measure with implementation details and schedule.
- (4) In the event of a confirmed exceedance of a site-specific trigger level relating to leachate mounding or groundwater or surface water impacts due to leachate, the Owner shall immediately notify the District Manager, and an investigation into the cause and the need for implementation of remedial or contingency actions shall be carried out by the Owner in accordance with the approved trigger mechanisms and associated contingency plans.
- (5) If monitoring results, investigative activities and/or trigger mechanisms indicate the need to implement contingency measures, the Owner shall ensure that the following steps are taken:
 - a. The Owner shall notify the District Manager, in writing of the need to implement contingency measures, no later than thirty (30) days after confirmation of the exceedances;
 - b. Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures shall be prepared and submitted by the Owner to the Director for approval; and
 - c. The contingency measures shall be implemented by the Owner upon

approval by the Director.

- (6) The Owner shall ensure that any proposed changes to the site-specific trigger levels for leachate impacts to the surface water or groundwater, are approved in advance by the Director via an amendment to this Approval.

16.7 Changes to the Monitoring Programs, Trigger Mechanisms and Contingency Plans

- (1) Following the approval by the Director, the Owner may request to make changes to the monitoring program(s), trigger mechanisms and/or contingency plan to the District Manager in accordance with the recommendations of the Triennial Landfill Monitoring Report. The Owner shall make clear reference to the proposed changes in a separate letter that shall accompany the Triennial Landfill Monitoring Report.
- (2) The Owner may follow the directions from the District Manager for the frequency of monitoring after requesting in accordance with Condition 16.7(1), above.
- (3) The Owner shall include written correspondence received from the District Manager confirming that the District Manager is in agreement with the proposed changes to the environmental monitoring program, trigger mechanisms and/or contingency plans, the Owner shall forward a letter identifying the proposed changes and a copy of the correspondences from the District Manager and all other correspondences and responses related to the changes, to the Director requesting the Approval be amended to approve the proposed changes to the environmental monitoring plan prior to implementation.

17.0 Closure Plans

17.1 Landfill Closure Plan

- (1) As appropriate, the Owner shall continue to carry out the Landfill post-closure activities as approved in the Landfill Closure Report prepared by Proctor & Redfern Limited and dated November 1981, listed in the attached Schedule 1 and as agreed to by the District Manager.
- (2) Within three (3) months from the date of this Approval or as agreed with the District Manager, the Owner shall prepare an updated Landfill Closure Report to include the following:
 - a. any additional or replacing equipment and/or infrastructure installed at the Landfill in addition to those set out in the 1981 Landfill Closure Report;
 - b. any additional or replacing inspection and maintenance protocols and activities in addition to those set out in the 1981 Landfill Closure; and

- c. the environmental monitoring protocols and the triggers for mitigative measures, as approved/accepted by the Ministry.
- (3) Within three (3) months from the date of this Approval, the Owner shall submit to the Director for approval, an updated Landfill Closure Report to set the current and proposed for the future post-closure operation and maintenance protocols and procedures for the closed Landfill.
- (4) Until the updated Landfill Closure Plan from Condition 17.1(2) is approved by the Director, the Owner shall carry out the post-closure operation and maintenance of the closed Landfill in accordance with the Supporting Documentation.
- (5) At no time shall the discharge of a contaminant that causes or is likely to cause an Adverse Effect from the closed Landfill is permitted.

17.2 Composting Site Closure Plan

- (1) The Owner shall submit, for approval by the Director, a written Closure Plan for the Composting Site at least nine (9) months prior to closure of the Composting Site. This Closure Plan shall include, as a minimum, a description of the work that will be done to facilitate closure of the Composting Site and a schedule for completion of that work.
- (2) The Owner shall submit to the District Manager, a detailed schedule/timetable for the implementation of the Closure Plan, a minimum of one (1) month prior to closure of the Composting Site.
- (3) Within ten (10) days after closure of the Composting Site, the Owner must notify the Director and the District Manager, in writing, that the Composting Site has been closed in accordance with the approved Closure Plan.

Schedule 1

1. Application for a Provisional Certificate of Approval for a Waste Disposal Site, dated December 24, 1970 submitted by Norris W. Walker and subsequent applications and supporting documentation, including the document entitled "Landfill Closure Report", Thorold, Ontario, dated November 1981 and prepared by Protor & Redfern Limited, for landfilling operations at the West Quarry Landfill and the subsequent closure of the Landfill.
2. Application for a Provisional Certificate of Approval for a Waste Disposal Site, dated April 4, 2001, submitted by Integrated Municipal Services (IMS), a division of Walker Brothers Quarries Limited, for amendment to Provisional Certificate of Approval No. A121001.
3. Letter and its attachment from Alison Braithwaite, IMS to Andy Dominski, MOE, dated August 31, 2000, Re: Application for a Certificate of Approval for a Waste Disposal Site (Composting) - 2800 Townline Road.
4. Document entitled "Supporting Document to Application for a Waste Disposal Site, Composting Facility, Integrated Municipal Services, August 2000".
5. Letter from Thirumaal Mahalingam, IMS to Ken Simmons, MOE, dated October 31, 2000, Re: West Quarry Landfill, Composting Facility.
6. Letter from Melanie M. Millington, Jagger Hims Limited to Dympna Scullion, Integrated Municipal Services (IMS), dated January 11, 2001, Re: Hydrogeological Impact Assessment - Proposed Compost Pad, Closed West Quarry Landfill site, File 981003.04.
7. Letter and its attachment from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated January 15, 2001, Re: West Landfill Composting Facility.
8. Letter from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated April 4, 2001, Re: Application for Amendment to Certificate of Approval No. A121001.
9. Letter from Mohsen Keyvani, MOE to Dympna Scullion, IMS, dated April 4, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
10. Letter from Tim McVicar, Niagara Waste Systems to Mohsen Keyvani, MOE, dated April 24, 2001, Re: Amendment to Certificate of Approval No. A121001, Operation of a Composting Facility on West Landfill.
11. Letter and its attachment from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated April 26, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
12. Letter from Paul Taylor, Compost Management to Mohsen Keyvani, MOE, dated May 1,

2001.

13. Letter and its attachment from Dympna Scullion, IMS to Martin Kilian, Niagara Escarpment Commission, dated May 14, 2001, Re: Composting Facility on West Quarry Landfill, File No. N/W/99-00/239.
14. Letter from Mohsen Keyvani, MOE to Dympna Scullion, IMS, dated May 22, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
15. Letter and its attachment from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated June 5, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
16. Facsimile and its attachment from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated September 5, 2001, Re: Niagara Escarpment Commission (NEC) development permit for composting project.
17. Letter from Mohsen Keyvani, MOE to Dympna Scullion, IMS, dated September 21, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
18. Letter and its attachment from Janet Templeton, IMS to Barb Ryter, MOE, dated October 15, 2001, Re: NEC Application N/W/01-02/14, Residential Waste drop-off Centre.
19. Letter from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated October 22, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
20. Letter from Mohsen Keyvani, MOE to Dympna Scullion, IMS, dated November 8, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
21. Letter and its attachment from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated November 26, 2001, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
22. Letter from Dympna Scullion, IMS to Mohsen Keyvani, MOE, dated January 31, 2002, Re: Application for Approval of Waste Disposal Site, Thorold City, Regional Municipality of Niagara, MOE Reference No. 0358-4NVLQU.
23. Facsimile from Alison Braithwaite, IMS to Mohsen Keyvani, MOE, dated February 14, 2002, Re: IMS Composting Facility, Reference 0358-4NVLQU.
24. Facsimile and its attachment from Mohsen Keyvani, MOE to Alison Braithwaite, IMS, dated

February 25, 2002, Re: Condition 20 of the draft CofA.

25. Facsimile from Alison Braithwaite, IMS to Mohsen Keyvani, MOE, dated February 25, 2002, Re: draft Condition 20 of the CofA.
26. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated September 20, 2002, signed by Alison Braithwaite, Director Environmental Compliance, Integrated Municipal Services.
27. Documentation submitted in support of the application for a Provisional Certificate of Approval for a Waste Disposal Site outlining operation changes proposed for the composting facility; public consultation information and Articles of Incorporation.
28. Letter from A. Braithwaite, Integrated Municipal Services, to EAAB, dated October 16, 2002 requesting an addition to the application.
29. Letter from A. Braithwaite, Integrated Municipal Services, to EAAB, dated December 2, 2002 providing clarification on the application.
30. Facsimile letter dated August 5, 2003 prepared by Dympna Scullion, Business Manager, Integrated Municipal Services, sent to David Lee, MOE, Re: Re-Evaluation of Financial Assurance including all supporting information and calculations.
31. Application for a Provisional Certificate of Approval for a Waste Disposal Site signed by Alison Braithwaite, Director, Environmental Performance, Integrated Municipal Services, dated November 21, 2003.
32. Letter from Alison Braithwaite, Director, Environmental Performance, Integrated Municipal Services, to EAAB, dated November 21, 2003 providing documentation in support of the application including a copy of submission made to the Niagara Escarpment Commission.
33. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated January 26, 2005 and signed by Alison Braithwaite, Director of Environmental Performance, Niagara Waste Systems Ltd., including the attached cover letter.
34. Application for a Provisional Certificate of Approval submitted by Niagara Waste Systems requesting an amendment to the compost facility Certificate. The amendment is to approve and incorporate the use of GORE technology in the operation. The application was dated July 24, 2007 and signed by Alison Braithwaite, Niagara Waste Systems. The supporting documentation included the following:
 - a. Cover letter dated July 24, 2007 addressed to Mr. Brad Ross, Ministry of the Environment from Ms. Alison Braithwaite, Niagara Waste Systems;
 - b. Report entitled "Waste Disposal Site CofA A121001 Application for Amendment - Integrated Municipal Services Thorold Compost Facility - Gore Technology -

June 2007"

35. Letter dated October 9, 2007 addressed to Ms. Alison Braithwaite, Niagara Waste Systems from Mr. Dale Gable, Ministry of the Environment requesting additional information pertaining to the operation of the composting pad using the GORE Technology.
36. Letter dated October 15, 2007 addressed to Mr. Dale Gable, Ministry of the Environment from Ms. Alison Braithwaite providing additional information on the design and operations of Gore Composting Pad.
37. Application for a Certificate of Approval for a Waste Disposal Site, signed by Alison Braithwaite, Director, Environmental Performance, dated October 23, 2009.
38. IMS Compost Facility, Design and Operations Report, dated May 26, 2010.
39. Letter from L. Aurora, Integrated Municipal Services to MOE Environmental Assessment and Approvals Branch, dated April 9, 2010 re: summary of amendments requested for Certificate of Approval No. A121001.
40. Integrated Municipal Services, Stormwater Management Report, dated April 9, 2010.
41. IMS Compost Facility Design and Operations Report, dated May 26, 2010, Revised June 2011.
42. Email dated February 18, 2016 to Rick Li, Ministry of the Environment and Climate Change from Lesley Clarke, Walker Environmental Group Inc. and the attachment regarding the WEGI Composting Facility Financial Assurance Calculations.
43. Application to amend the Environmental Compliance Approval No. A121001 submitted by Lesley Clarke, Walker Environmental Group Inc., including the email dated June 29, 2022 (1:00 p.m.) from Lesley Clarke, Walker Environmental Group Inc., including the following attachments:
 - a. MECP ECA Application.pdf
 - b. signature page.pdf
 - c. supporting Documents.pdf
 - d. Proof of Legal Name.JPG
44. Email dated September 9, 2022 (4:19 p.m.) from Lesley Clarke, Walker Environmental Group Inc., to Sara Sideris, Ontario Ministry of the Environment, Conservation and Parks, including the following attachments entitled:
 - a. EBR Abstract.pdf
 - b. NEC Permit – IMS Compost Site.pdf
 - c. E3 lab prices 2022.pdf
 - d. 20170313_152008.pdf

- e. FA Calculation WEGI Compost – 2022_updated.pdf
 - f. WM Walkers FA-Compost.pdf
 - g. Joseph hauling quote 2022.pdf
45. Email dated September 15, 2022 (8:58 a.m.) from Lesley Clarke, Walker Environmental Group Inc., to Sara Sideris, Ontario Ministry of the Environment, Conservation and Parks, including the attachment entitled "Mailing.docx".
46. Email dated January 13, 2023 (9:27 a.m.) from Lesley Clarke, Walker Environmental Group Inc., to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, including the following attachments:
- a. 2017 to 2020 West Landfill Site Report FINAL Combined-min.pdf;
 - b. 22DEC19 Reviewer Questions_WEG Response.pdf;
 - c. Niagara Compost DandO Report revision DEC2022 update.pdf;
 - d. West LF - Groundwater EMP review_Response to MECP Comments_Final.pdf;
47. Email dated June 12, 2023 (3:34 p.m.) from Lesley Clarke, Walker Environmental Group Inc., to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, including the following attachments:
- a. 2023-6-12 (15-34) attachment - West Landfill Closure Report.pdf;
 - b. 2023-6-12 (15-34) fr Walker with Closure Plan & 1 yr ok for FA estimate.msg
48. Email dated December 19, 2023 (8:46 a.m.) from Lesley Clarke, Walker Environmental Group Inc., to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, including the following attachments:
- a. 2023-12-19 (8-46) attachment - Appen 8 - NEC email re_wood grinding.pdf;
 - b. 2023-12-19 (8-46) attachment - 23DEC11 Reviewer Questions.pdf;
49. Email dated July 31, 2024 (4:15 p.m.) from Kerry Lorence, Walker Environmental Group Inc., to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, including the attachment entitled "WEG Compost Site ECA A121001 Comments".
50. Email dated January 17, 2025 (4:56 p.m.) from Rachel Karaim, Walker Environmental Group Inc., to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, including the attachment entitled "WEG Compost Site ECA A121001 Comments_January 17, 2025".
51. Email dated February 21, 2025 (4:55 p.m.) from Rachel Karaim, Walker Environmental Group Inc., to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, including the attachment entitled "2025-2-11 WEGI dr wds ECA (with MW & MD changes re WEGI Jan 17 comments) - WEG comments Feb 21".

Schedule 2

Table 2-1
Surface Water Monitoring Program

Monitoring Station		Monitoring Frequency	Monitoring Parameters
WC1 WC2	WC6 SLSAC	Annually (September)	Parameter List A2 VOCs PAHs
SAP		Monthly	Flow estimate

WC1 means upstream location along the Old Welland Canal

WC2 means downstream of the landfill site and upstream of the Walker Drainage System

WC3 means downstream of the West Landfill and the WDS in the Old Welland Canal

SLSAC means St. Lawrence Seaway Authority Catchbasin

Schedule 3

Groundwater and Landfill Gas Monitoring Program
Table 3-1

Monitoring Station			Monitoring Frequency	Monitoring Parameters
Overburden Wells	1-4 7-3R	72	Monthly from December to April	Water levels Methane Concentrations
Leachate Sumps	Well 1	Well 2	Annual (March)	Water Levels
Refuse Wells	34-1 35-1R 58-1R	OW3-2	Semi-Annual (March & August)	Water Levels
Lockport & Decew Dolostone Bedrock Wells	3-2 4-2 7-2 22-3 42-2	61-4 63-3 67-4 68-3 69-3		
Rochester Shale Bedrock Wells	3-1 4-1 7-1R 61-2 61-3 63-1 63-2	67-2 67-3 68-2 69-1 69-2 70-1 70-2		

Table 3-2

Monitoring Station		Monitoring Frequency	Monitoring Parameters
Refuse Wells	34-1	Annually (August)	Parameter List A3, B3
	35-1R		
	58-1R		Parameter List A3
Leachate Sumps	Well 1		Parameter List A3, B3
	Well 2		
Lockport & Decew Dolostone Bedrock Wells	3-2		Parameter List A4, B3
	4-2		
	42-2		Parameter List A4
	61-4		
	63-3		
	69-3		
Rochester Shale Bedrock Wells	67-4		Parameter List A4, B4
	3-1		Parameter List A4, B3
	4-1		
	61-3		Parameter List A4
	63-2		
	67-3		
	69-2		
	70-1		
	70-2		

Schedule 4

Parameter Lists

Sampling Parameter List A2

General Chemistry			
Field pH	Laboratory pH	Conductivity	Field Conductivity
Total Dissolved Solids	Hardness	Alkalinity	Chloride
Nitrate	Nitrite	Sulphate	Chemical Oxygen Demand
Dissolved Organic Carbon	Total Organic Carbon	Total Biological Oxygen Demand	Field Dissolved Oxygen
Field Temperature			
Trace Metals (ICAP Method)			
Ag	Al (Clay Free)	Ba	B
Ca	Cd	Cr	Cu
Fe	K	Mg	Mn

Na	Pb	Zn	
Trace Metals (AA Method)			
Cd	Sb	As	Se
Hg			
Nutrients			
NH3	TKN	Total Phosphorus	Org-N
Other			
Total Phenols (4-AAP Method)			

Sampling Parameter List A3

General Chemistry			
Field pH	Laboratory pH	Conductivity	Total Biological Oxygen Demand
Total Dissolved Solids	Hardness	Alkalinity	Chloride
Nitrate	Nitrite	Sulphate	Chemical Oxygen Demand
Dissolved Organic Carbon			
Trace Metals (ICAP Method)			
Ag	Al (Clay Free)	Ba	B
Ca	Cd	Cr	Cu
Fe	K	Mg	Mn
Na	Pb	Zn	
Trace Metals (AA Method)			
Hg	Sb	As	Se
Nutrients			
NH3	TKN	Total Phosphorus	Org-N
Other			
Total Phenols (4-AAP Method)	Sulphide	Total Cyanide	

Sampling Parameter List A4

General Chemistry			
Field pH	Laboratory pH	Conductivity	Field Conductivity
Total Dissolved Solids	Hardness	Alkalinity	Chloride

Nitrate	Nitrite	Sulphate	Field Temperature
Dissolved Organic Carbon			
Trace Metals (ICAP Method)			
Ag	Al (Clay Free)	Ba	B
Ca	Cd	Cr	Cu
Fe	K	Mg	Mn
Na	Pb	Zn	
Nutrients			
NH3	TKN	Total Phosphorus	Org-N
Other			
Total Phenols (4-AAP Method)			

Sampling Parameter List B3

BTEX

Vinyl Chloride

Chlorobenzene

1,4-Dichlorobenzene

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

GENERAL

Conditions 1.1, 1.4, 1.5, 1.6, 1.9 and 1.11 and 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.

Condition 1.12 is included, pursuant to subsection 197(1) of the EPA, to provide that any persons having an interest in the Site are aware that the land has been approved and used for the purposes of waste disposal.

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 QUANTITIES and PROHIBITED WASTE TYPES

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

Condition 2.4 is 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.

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 Organic Waste types are accepted and processed at the Site.

Conditions 4.3 through 4.5 and 4.7 through 4.9 are included to ensure that waste handling, processing and storage at the Site are undertaken in a way which does not result in an adverse environmental 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.

Condition 4.6 is included to set out prohibitions since the activities were not included in the proposal and not considered by the Director.

EQUIPMENT and SITE INSPECTIONS and MAINTENANCE

Condition 5.0 is included to require the equipment used for waste management and pollution control to be inspected and 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.

COMPOST QUALITY STANDARDS and CRITERIA and FERTILIZER QUALITY REQUIREMENTS

Conditions 6.1 and 6.2 are included to identify the Compost Quality Standards and criteria that must be met before Finished Compost can be considered Compost suitable for its intended end use and eligible for exemption from the requirement for an environmental compliance approval for use at a site.

Condition 6.3 is included to specify the Fertilizers Act requirements applicable to leachate to be used as Fertilizer and to include supplementary criteria for contaminants of concern for land application on agricultural fields.

PROCESSING CRITERIA and MONITORING

Condition 7.0 is included to specify the Composting recipe criteria and the operating parameters required for a properly functioning Composting operation as per the consensus in the composting industry and the Ministry's requirements so that the operation for the Site does not result in an Adverse Effect or a hazard to the natural environment or any person.

Condition 7.0 is also included to require the Owner to carry out the monitoring and testing activities required to verify processing criteria required under this Approval.

TESTING

Condition 8.0 is 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 Composting.

Condition 8.0 is also included to ensure that the Owner regularly tests the incoming Organic Waste and the Finished Compost to verify compliance with the Compost Quality Standards and compatibility of Compost produced at the Site with its proposed end use.

COMPLIANCE WITH COMPOST QUALITY STANDARDS and DISPOSAL and/or RE-USE REQUIREMENTS

Condition 9.0 is included to identify applicable regulatory compliance criteria for the wastes processed or generated at the Site to ensure that all outputs from waste management activities at the Site 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.

Condition 9.2 is also included to set out the procedures for the Owner to follow should non-compliance with the Compost Quality Standards occur.

ENVIRONMENTAL IMPACT CONTROL and HOUSEKEEPING

Condition 10.0 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 MANAGEMENT PROCEDURE

Condition 11.0 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 PERSONNEL TRAINING

Condition 12.0 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.

EMERGENCY RESPONSE and CONTINGENCY PLAN

Condition 13.0 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 14.0 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

Condition 15.0 is included to ensure that detailed records of Site activities, inspections, monitoring and upsets are recorded and maintained for inspection and information purposes.

LANDFILL POST-CLOSURE OPERATION, MAINTENANCE and MONITORING

Condition 16.1(1) is included to prohibit any further landfilling of waste at the Site.

Condition 16.1(2) is included to require operation of the Landfill equipment and infrastructure as currently approved.

Condition 16.2 is included to set out the regulatory standards and criteria applicable to operation of the Landfill and to provide the groundwater and surface water limits to prevent water pollution at the Site.

Conditions 16.3 through 16.7 are included to set out the requirements for environmental monitoring for the Landfill.

Condition 16.3 is also included to ensure that Landfill gas is monitored and all buildings at the Site are free of any Landfill gas accumulation, which due to a methane gas component may be explosive and thus create a danger to any persons at the Site.

Condition 16.4 is also included to require the Owner to demonstrate that the Site is performing as designed and the impacts on the natural environment are acceptable. Regular monitoring allows for the analysis of trends over time and ensures that there is an early warning of potential problems so that any necessary remedial/contingency action can be taken.

Condition 16.5 is also included to ensure the integrity of the groundwater monitoring network so that accurate monitoring results are achieved, and the natural environment is protected.

Conditions 16.6 and 16.7 are also included to streamline the approval of the changes to the monitoring plans and trigger mechanisms and contingency plans.

CLOSURE

Condition 17.1(1) is included to require Landfill post-closure activities to be carried out as currently approved.

Condition 17.1(2) is included to require submission of the updated Closure Report to ensure that the Landfill post-closure activities are up-to date with the current requirements.

Condition 17.2 is included to ensure that final closure of the Composting Site is completed in accordance with Ministry's standards.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A121001 issued on January 30, 2021, as amended.

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land 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 ("the Notice") 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:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

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 Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.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 26th day of March, 2025



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

MW/

c: District Manager, MECP Niagara
Rachel Karaim, Walker Environmental Group Inc.