

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A420011

Issue Date: July 31, 2023

Aevitas Inc.
2425 Industrial Park Dr
Cornwall, Ontario
K6H 7M4

Site Location: 2425 Industrial Park Dr
Cornwall, United Counties of Stormont, Dundas and Glengarry, Ontario
K6H 7M4

*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:*

1. waste disposal site to:

receive the following wastes: industrial metal waste, including waste electrical equipment, waste class 243 - PCB waste including electrical equipment with less than 30,000 parts per million by weight of PCBs, soil and debris contaminated with less than 30,000 parts per million by weight of PCBs in containers, waste class 252 oil-contaminated empty metal containers, waste class 261- pharmaceuticals, waste class 331 - waste compressed gases and controlled substances to:

- temporarily store;
- segregate;
- consolidate;
- re-package;
- process manually and/or with mechanical processes;
- transfer off-site; and/or
- thermally treat in one (1) metal reclamation furnace equipped with one (1) natural gas or propane fired primary burner having a maximum heat input of 1,582,500 kilojoules per hour and one (1) natural gas or propane fired secondary burner having a maximum heat input of 3,165,000 kilojoules per hour, exhausting into:
 - air pollution control system encompassing a packed tower scrubber equipped with a demister and a reverse pulse jet type

baghouse dust collector, complete with a process gas re-heater, a powdered carbon injection system and an exhaust fan. The air pollution control system also includes a scrubber liquor filtration system to remove fine particulate matter from the packed tower scrubber recirculation liquor prior to the liquor entering a heat exchanger;

- afterburner (by-pass) stack exhausting to the atmosphere through a stack having an exit diameter of 0.3 metre, extending 12.1 meters above the roof and 23.1 meters above grade;

receive, temporarily store, process manually and/or with mechanical processes and transfer to other approved PCB waste disposal sites other waste class 243 PCB wastes;

receive, temporarily store and decontaminate PCB contaminated transmission pipes involving mechanical removal of PCB containing tar coating and fine cleaning;

receive, temporarily store, segregate, consolidate and/or transfer to other approved facilities cylinders of waste compressed gases including chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs);

receive, temporarily store, segregate, consolidate, repackage and/or transfer to other approved facilities waste batteries, spent fluorescent lamps and other lamps classified as hazardous waste or non-hazardous commercial/industrial/institutional waste, and hazardous and liquid industrial wastes limited to waste classes 111, 112, 113, 114, 121, 122, 123, 131, 132, 133, 134, 135, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 211, 212, 213, 221, 222, 231, 232, 233, 241, 242, 243, 251, 252, 253, 254, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 281, 282 and 331;

with all waste management activities to be carried out within the confines of the Main Building and/or the North Building and/or the East Building, as set out in this approval;

2. the following air pollution control equipment, exhausting to the atmosphere to control the emissions to the atmosphere from the Main Building and/or the North Building:

an exhaust fan (DOMEX1) and one (1) gas and vapour activated carbon adsorption system to filter and capture fugitive odours from the general warehouse, exhausting to the atmosphere at a maximum volumetric flow rate of 7.17 actual cubic metres per second through a stack having exit diameter

of 0.91 metre, extending 0.53 metre above the roof and 9.22 meters above grade;

an exhaust fan (DOMEX2) and one (1) gas and vapour activated carbon adsorption system to filter and capture fugitive odours from the furnace with the carbon adsorption system, exhausting to the atmosphere at a maximum volumetric flow rate of 7.17 actual cubic metres per second through a stack having exit diameter of 0.91 metre, extending 0.53 metre above the roof and 11.66 metres above grade;

one (1) exhaust system (CF-1) equipped with a carbon filter complete with a pre-filter to control emissions from the Main Building, Furnace Room, Cooling Room and Shop; exhausting into the atmosphere through a stack having an equivalent exit diameter of 1.18 metres, extending 1.42 metres above grade;

one (1) exhaust system (CF-2) equipped with a carbon filter complete with a pre-filter to control emissions from the furnace room, north building and cooling room; exhausting into the atmosphere through a stack having an exit diameter of 0.6 metre, extending 3.6 metres above the roof and 14.27 metres above grade;

one (1) exhaust system (CF-4) equipped with a carbon filter complete with a pre-filter to control emissions from the North Building (east side), exhausting into the atmosphere through a stack having an equivalent exit diameter of 1.18 metres, extending 1.42 metres above grade; and

roof hatch equipped with carbon filter, if used as heat exhaust;

3. establishment of stormwater management Works for the collection, transmission, treatment and disposal of stormwater runoff from a total catchment area of approximately 1.874 hectares, to provide water quality control for all storm events up to and including the 100 year return storm, consisting of the following stormwater management system:

Holding Tank

one (1) holding tank with a capacity of 6,000 litres complete with sump and sump pump, receiving stormwater by gravity from the loading dock area and discharging effluent into the municipal open ditch located on the Optimum Drive right-of-way, which discharges into the municipal open ditch located on the Industrial Park Drive right-of-way.

Enhanced Grass Swales

approximately 55 metres long grass swale system [drainage ditch 'A'] formerly labelled as 'East Swale' located at the southeast portion of the Site with a depression like appearance relative to the lawn; longitudinal slope of 0.5 percent; receiving stormwater run-off from the area marked drainage area 'A' in the submitted drawing number SP1 and discharging effluent into the existing municipal open ditch located on the Industrial Park Drive right-of-way; and

approximately 125 metres long grass swale system [drainage ditch 'B'] located along the north portion of the Site with a U-shaped type cross-section; longitudinal slope of 0.4 percent; receiving stormwater run-off from the area marked drainage area 'B' in the submitted drawing number SP1 and discharging effluent into the existing municipal open ditch located on the Optimum Drive right-of-way and then into the municipal open ditch located on the Industrial Park Drive right-of-way;

a sump pump capable of removing up to 100 gallons per minute from the holding tank that is activated by a vertical switch and discharging the collected water via a 4" pipe. This vertical switch is set to activate the sump pump when the water level within the holding tank reaches a height of 16 inches (17.7% tank capacity).

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

"40 CFR 761.79" means title 40, part 761, section 79 of the Code of Federal Regulations published by the Office of the Federal Register National Archives and Records Administration of the United States of America;

"Adverse Effect" as defined in the EPA;

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

"Askarel transformer" means a transformer containing high PCB concentration liquid, typically 40-80% of PCBs, and can include the trade names of Askarel, Pyranol, Pyralene, Inerteen, Clophen, Apirolo or Kaneclor;

"Baseline Parameters" means the scrubber operating parameters from Condition 4.17;

"Breakthrough" means the presence of volatile organic compounds in the discharge

from the exhaust systems CF1, CF2, CF3 and CF4 determined with the use of carbon saturation indicators;

"Car-Bottom Furnace" means the car-bottom furnace described in the Owner's application, this Approval and in the supporting documentation referred to herein, to the extent approved by this Approval;

"CEM" and **"continuous emission monitor"**, means the apparatus for continuously measuring a parameter including all ancillary equipment, as contemplated by Condition 9.1 of this Approval;

"CF3" means the ventilation system equipped with activated carbon to control emissions in the Processing Room and exhausting internally back into the mezzanine area of the Main Building;

"Composite Sample" means a sample that is made up of a number of individual grab samples from a single sample container that have been thoroughly mixed together for the purpose of laboratory analysis;

"consolidate" means to place the contents of one or more drums or other D.O.T. approved containers into another drum or other D.O.T. approved container for the purpose of more efficient use of storage space and/or more efficient and economical waste transfer without attempting to dilute, mix, blend, stir, shake, shred, disintegrate or otherwise disturb the waste either manually or with the assistance of any piece of equipment for the purpose of preparing the waste for subsequent use or processing;

"contaminant" means a substance, usually a chemical compound that has a potential to harm the environment or cause harm to human health;

"contaminated" means unsuitable for use due to presence of one or more contaminants at concentrations that exceed regulatory limits, unless it is a contaminated storage container that is being used for storage of the like/similar waste;

"Controlled Substance" means Controlled Substance as defined in and within the meaning of the *Controlled Drug and Substances Act*, S.C. 1996, c. 19, as amended;

"D.O.T." means Department of Transport;

"debris" means mixed waste as set out in Condition 4.14;

"decontaminate" means processing of a contaminated object or material either mechanically or physically in such a manner as to either remove the contaminant

without destroying the object or material itself thus enabling re-use or recycling of the object or material or disposal of it with less stringent requirements than when the object or material has not been decontaminated;

"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 Ottawa District Office, Eastern Region of the Ministry;

"DRE" means **"destruction and removal efficiency"** and can be described as a measure of the difference between the mass air emissions of a compound from combustion equipment and associated air pollution control equipment and the mass of that compound introduced into it;

"EASR" means the Environmental Activity and Sector Registry;

"East Building" means the enclosed structure (Quonset Hut) to be used for activities set out in Condition 4.5;

"empty container" shall be metal and shall be an empty container as defined in Regulation 347;

"empty PCB container" shall be metal and shall be an empty container within the meaning set out in the Protocol;

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

"Equipment" means equipment or processes described in the ESDM Report, this Approval and in the Schedules referred to herein and any other equipment or processes;

"ESDM Report" means Emission Summary and Dispersion Modelling Report, submitted by AMEC, dated May 1, 2014 and signed by Akhter Iqbal;

"Exhausted" means the capacity of the Equipment to adsorb emissions is reached and the Equipment is no longer able to effectively reduce emissions;

"Facility" means the entire operation where the Metal Reclamation Furnace is located;

"Inert Fill" as defined in Regulation 347;

"Main Building" means the building housing the Office Area, the Furnace Room, the

Processing Room, the Shop, the Post-Treatment Room and the General Warehouse to be used for activities set out in Condition 4.5;

"Manager" means the Manager, Technical Services Section, Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Technical Services Section, Standards Development Branch, as those duties relate to the conditions of this Approval;

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

"Metal Reclamation Furnace" means the metal reclamation furnace, Al-Jon/United G-466-HT, described in the supporting documentation listed in the attached Schedule "A", to the extent approved by this Approval;

"mg" means milligram;

"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;

"NACE 2" means Visual Standard No. 2, Near-White Blast Cleaned Surface Finish of the National Association of Corrosion Engineers (NACE), as referenced in 40 CFR 761.79 (b)(3) (B);

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

"North Building" means the fully enclosed building (formerly known as New PCB Storage Building) to be used for activities set out in Condition 4.5;

"O. Regulation 406/19" means Ontario Regulation 406/19, entitled "On-Site and Excess Soil Management" made under the EPA, as amended;

"O. Regulation 419/05" means the Ontario Regulation 419/05, Air Pollution – Local Air Quality, as amended; (New)

"Ontario Source Testing Code" means the Ontario Source Testing Code, Version 2, Report No. ARB-66-80, dated November 1980, prepared by the Ministry, as amended;

"Operator" means any person, other than the Owner's employees, authorized by the Owner as having the charge, management or control of any aspect of the Site;

"Oversized PCB Waste" means large PCB waste items that are too large to be processed in the Processing Room and that require a construction of a portable

decontamination area, and including PCB contaminated transmission pipes;

"Owner" means Aevitas Inc., and includes its officers, employees, agents and contractors 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;

"PCB contaminated transmission pipes" means transmission pipes contaminated with PCBs to such an extent that the PCB content does not exceed 500 parts per million by weight;

"PCB Processing Staff" means those Owner employees who have been trained to handle PCB waste and includes those employees who verify the success of the decontamination of the pipes as well as those employees who carry out any required Wipe Tests;

"PCBs" means polychlorinated biphenyls;

"Point of Impingement" has the same meaning as in section 2 of O. Regulation 419/05;

"ppmdv" means parts per million in dry volume;

"Pre-test Information" means the information outlined in Section 1 of the Source Testing Code;

"Processed Waste" means the waste that was processed/treated at the Site in accordance with this Approval;

"Processing Area" means the area of the Site where all waste management activities approved under this Approval and described in the attached supporting documentation listed in Schedule "A" are proposed to be carried out;

"Protocol" means Protocol for Sampling and Testing at PCB Storage Sites in Ontario, Ontario Ministry of the Environment, January 2000;

"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;

"Publication NPC-300" means the Ministry Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August, 2013, as amended;

"Putrescible Waste" means organic waste that decomposes rapidly, such as food waste;

"Quality Criteria" means the quality criteria for the Waste, the Residual Waste and the Rejected Waste and for the Processed Waste required for the applicable waste management activity approved in this Approval;

"Regional Director" means the Director of the Eastern Region of the Ministry or such other official of the Ministry as may be assigned the duties of the Regional Director of the Eastern Region of the Ministry;

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

"Rejected Waste" means the incoming load inadvertently received at the Site and deemed by the Owner to be a waste that does not meet the incoming Waste Quality Criteria set out in this Approval or that cannot be processed at the Site;

"Residence Time" means the period of time combustion gases are subjected to the minimum temperature and oxygen content as specified by Condition 4.7 of this Approval, after the flame tip and after the point of final addition of fuels or combustion air if applicable;

"Residual Waste" means waste resulting from the management of the Waste at the Site and destined for further management at an off-Site location or final disposal;

"Rm³" means dry reference cubic metre at a temperature of 25° Celsius and a pressure of 101.3 kilopascals;

"Scrubber" means the packed column scrubber equipped with a heat exchanger described in this Approval and in the Schedules referred to herein;

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

"Shop" means the area of the Main Building to be used for activities as set out in this Approval;

"Site" means the property located at 2425 Industrial Park Drive in the City of Cornwall;

"Soil Rules" has the same meaning as in O. Regulation 406/19 and means the document entitled "Part I: Rules for Soil Management", published by the Ministry and as amended from time to time, available on a website of the Government of Ontario as Part I of the document entitled "Rules for Soil Management and Excess Soil Quality Standards";

"Soil Standards" means the generic excess soil standards set out in the Soil Rules;

"soil-like materials" means materials with physical attributes similar to soil, including but not limited to the following wastes: spent carbon, gravel, aggregate, dust, absorbent, sand blast residue;

"Solid non-hazardous waste" means a waste that is not a liquid waste and not a hazardous waste as defined in Regulation 347;

"Source Testing" means sampling and testing to measure emissions resulting from operating the Metal Reclamation Furnace under conditions which yield the worst case emissions within the approved operating range of the Metal Reclamation Furnace;

"Spill" has the same meaning as in Part IX of the EPA;

"Subject Waste" means waste including hazardous waste and liquid industrial waste as defined in Regulation 347;

"Supervisor" means Supervisor, Terrestrial Assessment and Field Services Unit, Environmental Monitoring and Reporting Branch of the Ministry, or equivalent;

"TCLP" means Toxicity Characteristic Leaching Procedure as defined in Regulation 347;

"Test Contaminants" means the compounds to be measured in any Source Testing as listed in Schedule "C" attached to this Approval and as may be amended pursuant to Condition 8.6 in this Approval;

"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;

"waste class 261 pharmaceutical wastes" shall be as set out in the Waste Class document;

"waste class 331 waste compressed gases other than chlorofluorocarbons or

hydrochlorofluorocarbons" shall be as set out in the Waste Class document;

"Waste Class" means the waste classes defined in the Ministry's document entitled "Ontario Waste Classes", dated February 2013, as amended;

"Waste Electrical Equipment" includes waste fluorescent light ballasts, cables, capacitor, bushings and whole transformers and components thereof;

"Waste" means waste approved for receipt and handling at the Site in accordance with 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 provincial Act or regulation or any other discarded, unwanted, unsuitable for its original use or purpose (for example off-specification or expired) post-consumer goods, items, materials and including soil destined for receipt at the Site. Outputs from processing/treatment of waste at a waste disposal site continue to be considered waste;

"Whole transformers" means any transformer that can be processed in the Metal Reclamation Furnace without being cut, shredded or altered in any way;

"Wipe Test" means sampling using the protocol described in Appendix B of the Protocol; and

"Works" means the sewage works described in the Owner's application and this Approval.

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

TERMS AND CONDITIONS

1.0 GENERAL

1.1 Compliance

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

(2) Any person authorized to carry out work on or operate any aspect of the Site shall

comply with the conditions of this Approval.

(3) Where in this Approval the Owner is obliged to do something within a deadline conditional upon the Director's approval and the Director does not give his or her approval, the Owner must obtain the Director's consent to an extension of the deadline or file a notice of appeal that the Director has refused to give approval. Failure by the Owner to obtain consent to an extension or to file notice of appeal will deprive the Owner of justification for failing to do the thing required by this Approval within the deadline specified in this Approval.

1.2 Build, etc. in Accordance

(1) Except as otherwise provided by this Approval, the facility shall be established, used, operated, maintained and monitored in accordance with the application for approval dated May 16, 2014 and signed by Vincent Lai and Roseanne O'Beirn, Aevitas Inc. and supporting information as amended and any other documentation listed in the attached Schedule "A".

1.3 As-built Drawings

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

1.4 Interpretation

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

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

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

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

1.5 Other Legal Obligations

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

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

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

1.6 Adverse Effect

(1) The Site shall be constructed, operated and maintained in a manner which ensures the health and safety of all persons and prevents generation of negative environmental impacts including but not limited to dust, odours, vectors, pests, birds, litter, vibration, noise and any other negative environmental effects that may cause an Adverse Effect.

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

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

1.7 Change of Owner

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

- a. the ownership of the Site;
- b. the operator of the Site;

c. the address of the Owner;

d. the partners, where the Owner is or at any time becomes a partnership and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c. B.17, as amended, shall be included in the notification; or

e. the name of the corporation where the Owner is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C.39, as amended, shall be included in the notification.

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

1.8 Inspections by the Ministry

(1) No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the OWRA, the EPA, the PA, the SDWA or the NMA of any place to which this Approval relates, and without limiting the foregoing:

a. to enter upon the premises where the approved processing is undertaken, or the location where the records required by the conditions of this Approval are kept;

b. to have access to, inspect, and copy any records required to be kept by the conditions of this Approval;

c. to inspect the Site, related Equipment and appurtenances;

d. to inspect the practices, procedures, or operations required by the conditions of this Approval;

e. to conduct interviews with staff, contractors, agents and assignees of the Owner; and

f. to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Approval or the EPA, the OWRA, the PA, the SDWA or the NMA.

1.9 Information and Record Retention

(1) Any information requested by the Ministry, concerning the operation of the Site and its operation under this Approval, including but not limited to any records required to be

kept by this Approval shall, upon request, be provided to the Ministry in a timely manner and in a format specified by the Ministry. All records shall be retained for five (5) years except as otherwise authorized in writing by the Director.

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

a. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Approval or any statute, regulation or other legal requirement; or

b. acceptance by the Ministry of the information's completeness or accuracy.

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

1.10 Financial Assurance

(1) The Owner shall maintain the existing Financial Assurance, as defined in Section 131 of the EPA in the amount of CAN\$1,232,075.00. This Financial Assurance shall be in a form acceptable to the Director and shall provide sufficient funds for the transportation, Site clean-up and disposal of all quantities of waste on the Site at any one time. No Waste shall be received at the Site unless the acceptable Financial Assurance has been submitted to the Ministry and approved by the Director.

(2) Commencing on July 31, 2028 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 Site and shall include the costs of additional monitoring and/or implementation of contingency plans required by the Director upon review of the closure plan and annual reports. The Financial Assurance must be submitted to the Director within thirty (30) calendar days of written acceptance of the re-evaluation by the Director.

(3) 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 ninety (90) 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 area of the Site where waste has been or is to be 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 any supporting documents including a registerable description of the Site.

(3) Within thirty (30) 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.

1.12 Insurance

(1) The Owner shall not receive any waste at the Site unless the Owner has insurance in the following amounts:

- a. Environmental Impairment Insurance in the amount of \$5,000,000; and
- b. General Liability Insurance in the amount of \$3,000,000.

(2) The Owner shall provide proof of insurance to the Director with one (1) calendar day of a request for proof of insurance made by the Director.

(3) The Owner shall cease receiving waste forthwith if for any reason insurance coverage ceases to be available and shall immediately notify the Director.

2.0 SERVICE AREA, APPROVED WASTE TYPES and RECEIPT

2.1 Service Area

(1) The service area approved under this Approval is North America.

2.2 Waste Types – Reception

(1) The Owner may receive the following wastes in annual quantities not exceeding:

- a. Any quantity of industrial metal wastes, including waste Electrical Equipment but not including wastes containing toxic metals or wastes from the electronics industry, all with less than 50 parts per million PCBs by weight;
- b. 4,380 tonnes of waste class 243 PCB wastes, provided that,
 - i. any soil, soil-like materials and debris solid PCB wastes is received in DOT-approved containers;
 - ii. liquid PCB wastes and high level PCB wastes containing more than 30,000 parts per million PCBs by weight are packaged in sealed containers and not exceeding 1,500 tonnes;
 - iii. no more than six (6) PCB contaminated transmission pipes are received at any one time;
- c. 20 tonnes oil-contaminated empty metal containers and debris;
- d. 2,000 tonnes Waste Class 261 pharmaceutical wastes;
- e. 200 tonnes Waste Class 331 compressed gases other than chlorofluorocarbons (CFCs) or hydrochlorofluorocarbons (HCFCs);
- f. 20 tonnes Waste Class 331 comprised of CFCs and HCFCs with a daily quantity not exceeding 1 tonne;
- g. 200 tonnes Controlled Substances (Non-Pharmaceutical);

(2) The Owner may receive the following wastes in daily quantities not exceeding:

- a. 10 tonnes waste batteries;

- b. 50,000 spent fluorescent lamps and other lamps classified as hazardous waste or non-hazardous commercial/industrial/municipal waste;
- c. 50 drums or 10.25 cubic meters (m³) hazardous and liquid industrial wastes limited to Waste Classes 111-114, 121-123, 131-135, 141-150, 211-213, 221, 222, 231-233, 241, 242, 251-254, 261-270, 281, 282, & 331, excluding Explosive waste, Pathological (P) waste, Radioactive waste, and Severely Toxic waste (S).

2.3 Waste Types – Physical and Non-Thermal Processing and Decontamination and/or Transfer

(1) The Owner may segregate, consolidate, re-package and process through physical and non-thermal processing methods set out in the Operations Plan listed in the attached Schedule "A" and/or transfer off-site those waste types and quantities as listed in Condition 2.2.

2.4 Waste Types – Thermal Treatment

(1) The Owner may thermally treat in the Metal Reclamation Furnace the following wastes in annual quantities not exceeding:

- a. Any quantity of industrial metal wastes, including waste Electrical Equipment but not including wastes containing toxic metals or wastes from the electronics industry, all with less than 50 parts per million PCBs by weight;
- b. 4,380 tonnes of waste class 243 solid wastes containing less than 30,000 parts per million PCBs by weight, including Electrical Equipment, concrete, porcelain, and no more than 120 tonnes of soil and debris;
- c. 20 tonnes oil-contaminated empty metal containers and debris;
- d. 200 tonnes Waste Class 261 pharmaceutical wastes;
- e. 200 tonnes Waste Class 331 compressed gases other than chlorofluorocarbons (CFCs) or hydrochlorofluorocarbons (HCFCs); and
- f. 200 tonnes controlled substances.

2.5 Reagents

(1) The Owner may receive, temporarily store and use petroleum distillates and/or non-polar solvents to physically process incoming Waste.

2.6 Receipt Prohibitions

(1) The Site is not approved to receive any subject waste as defined under Regulation 347, other than the Waste approved for receipt under this Approval.

(2) Any prohibited incidental subject waste received at the Site shall be handled as the Rejected Waste and in accordance with the requirements set out in this Approval.

(3)

- a. The Site is not approved to receive any putrescible waste with the exception of incidental amount of putrescible waste that may not be separated out of the incoming Waste.
- b. If a load of incoming Waste containing more than an incidental amount of putrescible waste is received at the Site, the Owner shall:
 - i. on the next business day following its receipt, submit to the District Manager a plan to handle a load of incoming Waste containing more than an incidental amount of putrescible waste received at the Site;
 - ii. submit any additional information that the District Manager may require with respect to the plan in Condition 2.6(3)b.i. in order to finalize the plan; and
 - iii. upon receiving the written concurrence from the District Manager, handle the waste in accordance with the finalized plan.

3.0 SIGNS and SITE SECURITY

(1) The Owner shall maintain a sign at the entrance to the Site. The sign shall be visible and readable from the main road leading to the Site. The following information shall be included on the sign:

- a. name of the Owner and the Site's address;
- b. this Approval number;
- c. hours during which the Site is open;
- d. waste types that are approved to be accepted at the Site;
- e. Owner's telephone number to which complaints may be directed; and
- f. Owner's twenty-four hour emergency telephone number (if different from above).

(2) The Owner shall maintain separate signs at the entrance to the Site with a warning

against unauthorized access and a warning against dumping at the Site.

(3) The Owner shall ensure that the Site is secured and that all entrances are secured by lockable gates to prevent unauthorized access when the Site is not open.

(4) The Owner shall install, operate and maintain appropriate security devices and systems to ensure that the Site is operated in a safe and secure manner, and that all waste is properly handled, contained, stored and labelled so as not to pose any threat to the general public and the Site personnel.

4.0 SITE OPERATIONS

4.1 Operating hours:

(1) The Site is approved to operate 24 hours, 7 days per week, 365 days per year, unless otherwise limited by municipal by-laws.

4.2 Incoming Waste Receipt:

(1) Before accepting any Waste at the Site, the Owner shall acquire documentation from the generator showing the origin of the Waste and verifying that it is a waste approved for receipt at the Site. As a minimum, the documentation shall include the following:

- a. the generator's name and/or company name, address, and contact information;
- b. Waste source site location;
- c. estimated quantity of the Waste being received at the Site;
- d. Waste type and quality and if available the results of Waste characterization, including the following sampling and analytical results data:
 - i. sampling protocols, including the number of samples taken and their locations, the sampling methods used and handling of the samples, if available;
 - ii. analytical results for Regulation 347 Schedule 9 slump test if the Waste is designated as a solid waste but has a high moisture content;

All supported by any applicable analytical results from an accredited laboratory (Canadian Association for Laboratory Accreditation or equivalent).

(2) Other waste class 243 PCB wastes that are received at the Site but that cannot be thermally treated under this Approval and are destined for transfer off-Site shall be

within sealed containers.

(3) The Owner shall not accept Waste at the Site until such time as the documentation required by Condition 4.2(1), above, is reviewed and deemed acceptable by Trained Personnel.

(4) All Waste receipt and unloading shall be undertaken within the dedicated receiving area of the Site as set out in the supporting documentation listed in the attached Schedule "A".

(5) Waste unloading shall be only done in the presence of Trained Personnel, a list of whom shall be placed in a visible and conspicuous location in the Facility.

(6) If practical, the Trained Personnel shall visually inspect the incoming Waste as it is being unloaded. Otherwise, the incoming Waste shall be visually inspected as the transportation container is open prior to any handling of the Waste at the Site.

(7) Any Waste that exhibits characteristics suggesting that it is not a waste approved for receipt at the Site, shall be deemed a Rejected Waste and be disposed of in accordance with this Approval, the EPA and Regulation 347.

(8) The Owner shall only accept Waste that was transported to the Site by haulers approved by the Ministry, as required.

4.3 Rejected Waste Handling and Disposal:

(1) The Owner shall designate an area for storage of the Rejected Waste.

(2) In the event that the Waste that is not approved under this Approval is inadvertently accepted at the Site, the Owner shall ensure that all Rejected Waste:

a. is stored in the way that ensures isolation from other wastes and materials and from the natural environment; and

b. is handled and removed from the Site in accordance with Regulation 347 and the EPA.

(3) In the event that the Rejected Waste is inadvertently accepted at the Site, the Owner shall keep a record in accordance with the requirements set out in Condition 15.1, below, and notify the District Manager in accordance with the requirements set out in Condition 15.1, below.

4.4 Storage

(1) All storage of the Waste, Rejected Waste, Residual Waste and Processed Waste shall be carried as set out in supporting documentation included in the attached Schedule "A", except as follows:

a. any amount of industrial metal waste but up-to the amount for which a sufficient Financial Assurance has been provided may be stored in the Main Building, the North Building and the East Building;

b. a maximum of 1,207 tonnes of PCB wastes including all stored amounts in the Main Building, East Building and North Building:

i. including not more than 30 tonnes of liquid PCB wastes and wastes containing more than 30,000 parts per million PCBs by weight, both of which restricted to the Main Building;

ii. the Owner may store the PCB wastes in closed containers compliant with the requirements of the DOT in the East Building, with a maximum of 20 roll-off containers and a maximum of 360 tonnes of solid PCB waste limited to soil, concrete, metal and wood; and

iii. a maximum of 600 tonnes of solid PCB wastes in the North Building;

c. PCB wastes in the North Building must be stored in closed containers compliant with the requirement of the DOT unless a dedicated carbon ventilation system (CF4) is in place and operating to provide a negative pressure environment;

d. a maximum of 5 tonnes of oil contaminated empty metal containers and debris with all stored amounts in the Main Building and/or North Building;

e. a maximum of 250 tonnes of pharmaceutical wastes with all stored amounts in segregated areas of the Main Building, North Building and/or East Building;

f. a maximum of 2 tonnes of waste compressed gases including chlorofluorocarbons and hydrochlorofluorocarbons with all stored amounts in segregated areas of the Main Building, North Building and/or East Building;

g. a maximum of 10 tonnes of waste batteries (or 50 tonnes if sufficient Financial Assurance provided) with all stored amounts in in segregated areas of the Main Building, North Building and/or East Building;

h. a maximum of 50,000 units of spent fluorescent lamps and other lamps classified as hazardous waste or non-hazardous commercial/industrial/municipal waste (or 150,000 units if sufficient Financial Assurance provided) with all stored amounts in segregated areas of the Main Building, North Building and/or East Building;

i. a maximum of 50 drums or 10.25 cubic meters (m³) of hazardous and liquid industrial wastes (or 160 drums or 32.8 cubic meters (m³) if sufficient Financial Assurance provided) and including liquid waste resulting from the liquid PCB waste filtration activities, with all stored amounts in segregated areas of the Main Building, North Building and/or Dedicated Trailers;

j. a maximum of 10 tonnes of waste generated from the air pollution control system (or 20 tonnes if sufficient financial assurance provided), with all stored amounts in the Main Building and/or North Building, and;

k. any amount of ceramics/aggregates if the ceramics/aggregates comply with the inert fill definition from Regulation 347 or the amount of ceramics/aggregates for which a sufficient Financial Assurance has been provided, with all amounts stored in the Main Building, North Building, East Building and/or outside in containers;

l. any amount of clean metals destined for re-use at an approved or exempted site, with all amounts stored in the Main Building, North Building, East Building and/or outside in containers; and

m. a maximum of 30 tonnes of residual waste limited to furnace ash generated through thermal treatment in the Metal Reclamation furnace, with all stored amounts in the Main Building, North Building, East Building and/or outside in sealed drums.

(2) In the event that the Waste destined for transfer off-Site and the Processed Waste cannot be removed from the Site and the Site is at its approved storage capacity, the Owner shall cease accepting additional Waste until additional receipt of the Waste complies with the waste storage limitations set out in this Approval.

(3) No subject waste shall be stored on Site for more than ninety (90) days, unless a notice is submitted to the Regional Director within five business days after the 90th day of storage, in accordance with Regulation 347.

(4) Notwithstanding Condition 4.4(3), above, no subject waste shall be stored for more than twenty four (24) months unless a completed application for an Environmental Compliance Approval has been made to the Ministry, in accordance with Regulation 347.

(5) The Rejected Waste shall be removed from the Site:

a. within (4) business days of its receipt, receipt of the laboratory report from the analysis of the Waste deemed as the Rejected Waste as applicable or Aevitas determination that the Waste is the Rejected Waste; or

b. as acceptable to the District Manager.

(6) Prior to transfer to other approved facilities, Waste may be stored outdoors if stored within a maximum of two (2) dedicated trailers located within the designated storage location shown on the Site Plan listed in the attached Schedule "A" and if stored in accordance with the Operations Plan listed in the attached Schedule "A".

(7) The Owner shall store the PCB contaminated transmission pipes in the Main Building within a dedicated enclosure complete with controlled access for PCB Processing Staff through a personnel decontamination area.

(8) The Owner shall ensure that all containers used to store waste are enclosed and in good condition. Leaking or failing containers shall not be kept on-site unless they are placed within leak-proof salvage container as defined Transport Canada.

(9) The Owner shall ensure that all waste and chemicals at the Site are stored, processed and transferred in accordance with the Ministry document entitled *"Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities"* dated May 2007, as amended, at all times.

(10) The Owner shall ensure that all containers and storage areas containing flammable and/or ignitable waste are adequately grounded.

(11) The Owner shall ensure that all liquid waste is stored in secondary containment that is adequate to contain any spills or leaks or run-off.

(12) Incompatible types of waste shall be segregated during storage.

(13) Segregated/consolidated and re-packaged hazardous and liquid industrial waste destined for transfer off-Site may be stored in the segregated area of the Main Building or the North Building or in dedicated trailers.

4.5 Waste Management Activities:

(1) The Owner shall ensure that all Waste, the Residual Waste, the Rejected Waste and the Processed Waste management activities at the Site are carried out in designated areas as shown on the "Site Plan" listed in the attached Schedule "A" at all times.

(2) All activities approved under this Approval shall only be carried out by the Trained Personnel appropriately trained as set out in Condition 12.2.

(3) Unless otherwise specified in this Approval, the approved activities shall be carried

out as set out in the documents in the attached Schedule "A".

Transfer

(4) The Owner shall ensure that all Waste containing contaminants that cannot be thermally treated in the Metal Reclamation Furnace or processed with the approved non-thermal processing methods is transferred from the Site.

Main Building

(5) The following Waste management activities are approved to be carried out in the Main Building:

- a. weighing of all incoming and outgoing truck loads and recording the results;
- b. receipt, temporary storage and transfer of the Waste intended for transfer off-Site;
- c. receipt, temporary storage, consolidation and re-packaging and transfer of the Waste intended for transfer off-Site and transporting waste, non-waste, and/or treated materials through the area to other areas;
- d. transfer of waste to the North or East Buildings following reception for temporary storage;
- e. receipt, temporary storage, physical/mechanical processing of the Waste including segregation or alteration that includes compressing, dismantling, grinding, puncturing, draining, chipping/shredding, cutting, crushing, splitting, slitting, mixing and scraping manually or by using equipment, such as but not limited to compactor, grinder, shredder, and other processes concurred to by the District Manager;
- f. preparation of the Waste batch for thermal treatment in the Metal Reclamation Furnace to consist of the Waste and/or Waste pre-processed with physical/mechanical methods listed in Condition 4.5 (5)e.;
- g. thermal treatment of the Waste batch in the Metal Reclamation Furnace;
- h. cooling of the thermally treated Waste batch;
- i. post-thermal treatment separation of the Waste batch components with physical and/or mechanical methods, followed by sorting and consolidating by type;
- j. filtration of the PCBs Waste through hydrophobic or activated carbon filters or in a "closed system"; and

k. solvent decontamination of the Waste and/or Waste pre-processed with physical/mechanical processing listed in Condition 4.5(5)e.

North Building

(6) The following Waste management activities are approved to be carried out in the North Building:

- a. transporting waste, non-waste, and/or treated materials through the area to other areas;
- b. post-thermal treatment processing;
- c. loading/unloading of waste and non-waste (supplies) for reception or shipment;
- d. filtration of the PCBs Waste through hydrophobic or activated carbon filters or in a "closed system";
- e. sorting from containers;
- f. receipt, temporary storage and if operating under negative pressure the physical/mechanical process of the Waste including segregation or alteration that includes compressing, dismantling, grinding, puncturing, draining, chipping/shredding, cutting, crushing, splitting, slitting, mixing and scraping manually or by using equipment, such as but not limited to compactor, grinder, shredder, and other processes concurred to by the District Manager;
- g. consolidation and repackaging; and
- h. decontamination of waste containers for re-use.

East Building

(7) The following Waste management activities are approved to be carried out in the East Building:

- a. loading/unloading of waste and non-waste (supplies) for reception or shipment;
- b. temporary storage of the Waste, except liquid PCB wastes and hazardous and liquid industrial waste;
- c. physical segregation and altering manually or with mechanical assistance of spent fluorescent lamps and other lamps, other than mercury-containing lamps;

- d. transfer waste and/or non-waste to Main or North Buildings following reception for temporary storage/processing;
- e. transporting waste and/or non-waste to the Main or North Buildings; and
- f. consolidation and repackaging of spent fluorescent lamps and other lamps, other than mercury-containing lamps.

4.6 Thermal Treatment of Waste

Preparation of PCB Waste

(1) Prior to thermal treatment in the Metal Reclamation Furnace, the Owner shall:

- a. inspect and drain all free flowing liquid from PCB Whole Transformers, capacitors, excluding those contained in light ballasts and containers. In the case of PCB Whole Transformers and capacitors, re-drain any liquid accumulated after 48 hours following the initial draining; and
- b. determine the PCB content of all processable PCB waste in accordance with the requirements of Condition 8.1.

Preparation of Pharmaceutical Waste

(2) Prior to thermal treatment of pharmaceutical waste in the Metal Reclamation Furnace, the Owner shall remove the waste from its transportation or storage container as set out in the supporting documentation listed in the attached Schedule "A".

Feeding Rates to Metal Reclamation Furnace

(3) The Owner shall ensure that the following maximum feeding rates of the Metal Reclamation Furnace are not exceeded:

- a. 12 kilograms of PCBs per hour during the processing of waste containing less than 30,000 ppm of PCBs in any batch, to a maximum of 30 kilograms in any batch, with a maximum batch size not exceeding 1,000 kilograms;
- b. 1,000 kilograms per batch during the processing of other solid wastes;
- c. the equivalent of 1.58 GJ (1.5 million BTU) per hour during the processing of non-chlorinated flammable gases; and
- d. 0.57 cubic metres (20 cubic feet) per second during the processing of other

compressed gases.

4.7 Metal Reclamation Furnace Operating Conditions

(1) The Owner shall ensure that the Metal Reclamation Furnace is operated so as to ensure that at all times, except during start-ups, shut-downs and emergency start-ups and shut-downs while processing PCB wastes:

- a. combustion gas temperature is 1200 degrees Celsius or higher;
- b. residence time is 2 seconds or higher; and
- c. oxygen content in the flue gases is 3% or higher, based on 6-minute rolling average, with oxygen content in the flue gas 6% oxygen or higher for 80% of the total operating time per annum.

(2) The Owner may operate the Metal Reclamation Furnace at lower limits than those required by Condition 4.7(1) provided that DRE required by Condition 7.1 can be met and if the Director, after reviewing the data, approves lower limits in writing, in which case Condition 4.7(1) shall be read as importing the terms of that approval specifying lower limits. If obtained, the Owner shall forward a copy of the Director's written approval of lower operational limits for the Metal Reclamation Furnace to the Public Liaison Committee.

(3) Waste shall not be introduced into the metal reclamation furnace during start-up and shut-down unless the afterburner is operating within the limits specified in Condition 4.7(1).

(4) In the event of loss of flame in the afterburner, the Owner shall make every effort to maintain the temperature in the afterburner at or above the limits specified in Condition 4.7(1) as long as the waste is still in the Metal Reclamation Furnace and to restore the flame as quickly as possible.

(5) The Owner shall set the controls of the Metal Reclamation Furnace to provide an automatically controlled shutdown when the operator wishes to shut down the Metal Reclamation Furnace or when a CEM indicates that the Metal Reclamation Furnace must be shut down. The control system shall:

- a. maintain a temperature in the afterburner at limits specified in Condition 4.7(1) until the solid waste is discharged from the Metal Reclamation Furnace; and
- b. immediately shut down the Metal Reclamation Furnace in a manner that will minimize air emissions of contaminants to the environment in the case of an unscheduled

shutdown of the continuous emission monitoring system.

(6) The Owner shall ensure that the Metal Reclamation Furnace is equipped with an appropriate and adequate alarm system and is capable of fast manual shutdown by the operator should any of the automatic shut-off devices fail.

(7) Upon the reduction, loss or failure of the power source to the Metal Reclamation Furnace, the Owner shall, in order to maintain compliance with this Approval, take all reasonable steps to control all discharges from the Metal Reclamation Furnace including steps to control, reduce or halt operation.

(8) The Owner shall monitor the appropriate combustion parameters to ensure that the thermal treatment of waste is completed before the batch is considered completed.

4.8 Afterburner stack

(1) The Owner shall operate the Metal Reclamation Furnace and the associated air pollution control equipment such that the combustion gases will not be emitted through the afterburner stack except during emergencies.

(2) The Owner shall prepare and submit a plan for the approval of the Director to ensure that Point of Impingement standards are met in the event of a scrubber failure within six (6) months of the commencement of PCB processing.

(3) The Owner shall report to the Provincial Officer forthwith if afterburner gases are discharged directly to the ambient air via the afterburner stack while wastes are being processed.

4.9 Non-Thermal Processing of Waste

Physical/Mechanical Processing of Waste:

(1) Prior to thermal treatment in the Metal Reclamation Furnace or transfer to other facilities, the Owner may carry out the following non-thermal processing of the Waste:

- a. dismantling;
- b. grinding;
- c. puncturing;
- d. draining;
- e. cutting;
- f. crushing;
- g. splitting;
- h. slitting;

- i. chipping/scraping;
- j. shredding;
- k. mixing; and
- l. other processes concurred to by the District Manager.

(2) Non-thermal processing of the Waste shall only be carried out in the designated areas of the Main Building or in the North Building.

(3) Non-thermal processing, limited to shredding of the PCB waste having PCB concentration greater than 30,000 ppm shall only be carried out in the Processing Room.

(4) Non-thermal processing of the Waste set out in Condition 4.9(1) shall only be carried out in when the ventilation system for the area where the non-thermal processing of the Waste is being carried out is operating and the area is maintained under adequate negative pressure to ensure effective building envelope containment.

Solvent Decontamination

(5) The Owner shall wash, brush, wipe and cleanse PCB waste using solvent or steep, dip and/or use the solvent sonic bath to decontaminate the Waste that cannot be thermally treated in the Metal Reclamation Furnace.

(6) The Owner shall cover the solvent sonic bath when not in use and when the decontamination in the solvent sonic bath is in progress.

(7) Solvent decontamination shall be undertaken in the designated areas of the Main Building only.

(8) The Owner shall carry out solvent decontamination activities in the area where adequate negative pressure is maintained to ensure effective building envelope containment.

(9) The Owner shall decontaminate the PCB contaminated transmission pipes and other Oversized PCB Waste in the Main Building or in the North Building within a dedicated enclosure complete with controlled access for PCB Processing Staff through a personnel decontamination area.

(10) The Owner shall ensure that the operation and maintenance procedures as well as emergency response and spill contingency plan for the Site are updated to include all special procedures relating to the transmission pipe and other Oversized PCB Waste receiving, storage, decontamination and testing approved under this Approval.

(11) The Owner shall ensure that there are no waste containers or other obstructions

anywhere along the transfer route at the time when transmission pipes or other Oversized PCB Waste are being transferred from the transport vehicle into the dedicated decontamination enclosure or from the dedicated decontamination enclosure to the outdoor storage area for decontaminated pipes or other oversized parts.

(12) The Owner shall ensure that all areas as well as equipment outside and inside the building at the Site are promptly cleaned in the event that a PCB contaminated transmission pipe or other oversized PCB waste comes into contact with a surface that is not covered with removable, protective material that prevents it from becoming contaminated.

(13) The Owner shall visually inspect the transmission pipe transfer route immediately after each PCB contaminated transmission pipe or other oversized PCB waste has been transferred from the transport vehicle into the dedicated decontamination enclosure and promptly clean up any spills that may have occurred during the pipe or other oversized PCB waste transfer.

PCB Waste Filtration

(14) The Owner shall filter aqueous and non-aqueous PCB waste and consolidate the aqueous phase and non-aqueous phase liquid waste streams and the PCB waste streams, in the Main Building and the North Building with hydrophobic or activated carbon filters or with an closed system mobile waste processing unit including a centrifugal separator, sand filter, bag filter, carbon filter, cartridge filters and Myclex PCB filter.

(15) The filtration activities may only be carried out when all the doors to the Main Building or in the North Building are closed and the ventilation system CF4 is operating and maintaining the filtration and consolidation area under adequate negative pressure to ensure effective building envelope containment.

(16) Pumping of filtered liquid waste into tankers or containers shall be supervised by Trained Personnel at all times.

(17) The Owner shall take all precautionary measures to avoid a Spill and shall ensure that Spill clean-up equipment is readily available when pumping of filtered liquid wastes is carried out at the Facility.

(18) The Owner shall ensure that any closed system mobile waste processing unit operated at the Site is a Ministry-approved waste management system.

4.10 Segregating, Consolidation and Repackaging

(1) Prior to transfer to other approved facilities, the Owner may segregate, consolidate and repackage waste class 261 pharmaceutical waste, waste class 331 waste compressed gases other than chlorofluorocarbons or hydrochlorofluorocarbons, waste batteries, spent fluorescent lamps and other lamps classified as hazardous waste or non-hazardous commercial/industrial/municipal waste and hazardous and liquid industrial wastes.

(2) Segregating, consolidation and repackaging of the mercury-containing lamps shall only be carried out in the Main Building or in the North Building.

(3) Segregating, consolidation and repackaging of the waste categories set out in Condition 4.10(1) shall only be carried out when the ventilation system for the area where the segregation, consolidation and repackaging is being carried out and the area is maintained under adequate negative pressure to ensure effective building envelope containment.

Soil and Soil-Like Materials

(4) The Owner shall manage the PCB-contaminated soil and the soil-like materials as follows:

- a. mixing and consolidating activities shall be carried out in the Shop only;
- b. at no time, shall any PCB-contaminated soil and soil-like materials be mixed with any other waste, soil, soil-like materials or materials if the principal purpose of the mixing is to reduce the contaminant concentrations in the PCB-contaminated soil and the soil-like materials;
- c. the PCB-contaminated soil and the soil-like materials shall be wetted during mixing to effectively minimize generation of fugitive dust emissions;
- d. all doors to the Shop shall be kept closed when mixing and consolidating activities are being carried out;
- e. the outside doors from the Shop shall not be opened for a minimum of thirty (30) minutes following the mixing and consolidating activities; and
- f. any equipment used in the mixing and consolidating activities must be decontaminated and wipe-tested for PCBs before subsequent use with non-PCB wastes or uncontaminated materials elsewhere within or outside of Facility.

(5) The Owner may install a mobile air filtration system in the Shop to augment the particulate matter control within the confines of the Shop during the PCB-contaminated

soil and the soil-like materials mixing and consolidating activities.

4.11 Processing Prohibitions

- (1) No liquid industrial waste, including the liquid industrial waste generated at the Site shall be thermally treated in the Metal Reclamation Furnace.
- (2) Scavenging of any wastes is prohibited at the Site.
- (3) At no time shall any Waste be mixed with any other waste or materials if the principal purpose of the mixing is to reduce contaminant concentrations in the Waste.
- (4) No mercury-containing lamps shall be segregated, consolidated and repackaged in the East Building.
- (5) No containers used for transportation or storage of pharmaceutical waste shall be thermally treated in the Metal Reclamation Furnace.

4.12 Treated/Decontaminated Waste Handling & Off-Site Destination

Cooling

- (1) The Owner shall cool the thermally treated Waste batch to safe working temperatures, indoors, in the car bottom furnace or in Cooling Room, when the said Cooling Room is constructed in accordance with the supporting documentation included in the attached Schedule "A".
- (2) The Owner shall operate the ventilation system CF1 and/ or CF2 when the thermally treated Waste batch is cooling in the car bottom furnace or in the Cooling Room.

Post-Thermal Treatment Separation of the Waste Batch Components

- (3) Post-thermal treatment separation of the Waste batch components may be carried out with physical and/or mechanical methods followed by sorting and consolidating by type, as set out in the supporting documentation.
- (4) Post-thermal treatment separation of the Waste batch components shall be carried in the Post-Treatment Room or the North Building.

Decontaminated Transmission Pipes

- (5) The Owner shall ensure that each successfully decontaminated transmission pipe, as demonstrated in accordance with Condition 8.3, is:

- a. promptly removed from the decontamination area to the decontaminated pipe storage area taking care that it will not become in contact with any PCB waste;
- b. shipped back to the gas and utility industry with a document identifying the company name, date of processing and date of inspection or testing of the pipe, results of inspection or testing verifying the success of the decontamination, complete with the signature of the employee responsible for the inspection or testing as well as a copy of the document received from the analytical laboratory, if applicable.

Effluent from Waste Filtration

(6) Filtered aqueous or non-aqueous waste shall be transferred off-Site to a Ministry-approved waste disposal site or other site approved to accept such waste by an appropriate government agency of equivalent jurisdiction, for further treatment or final disposal.

Failed Treated Waste

(7) All transmission pipes that have failed to pass the Wipe Test or do not comply with NACE 2 are deemed to be PCB waste.

4.13 Waste Destined for Transfer Handling

(1) The Waste intended for transfer off-Site shall be shipped from the Site only to a Ministry-approved waste disposal site or other site approved to accept such waste by an appropriate government agency of equivalent jurisdiction.

4.14 Solid Residual Waste Handling and Disposal

(1) Solid wastes generated at the Site and subject to the requirements set out in this Approval include the following:

- a. fly ash from the APC system
- b. bottom ash from the Metal Reclamation Furnace
- c. spent filter media from the scrubber system
- d. spent carbon
- e. spent filter bags
- f. spent filter media from liquid PCB waste filtration system
- g. debris, limited to the following wastes:
 - i. wood (skids, branches, crates, boxes, construction wood, wooden floors, etc.);
 - ii. used personal protective equipment (Tyvek suits, gloves, respirators, etc.);

- iii. used protective floor/wall/equipment (fork lift, etc) coverings;
- iv. materials used in decontamination/housekeeping activities;
- v. clean-up materials (plastics, pails, tarps);
- vi. dry absorbent;
- vii. cardboard, paper (from bushings, cable, transformers and capacitors);
- viii. small amounts of tar or grease;
- ix. cable wrap (without asbestos); and
- x. any other waste acceptable to the District Manager.

(2) The Owner shall ensure that the Residual Waste is:

- a. stored in designated areas of the Site as set out in this Approval; and
- b. segregated from all other waste.

(3) Debris shall be handled as follows:

- a. debris may be thermally treated in the Metal Reclamation Furnace in accordance with the requirements set out in this Approval; or
- b. if debris is not thermally treated in the Metal Reclamation Furnace, it shall be managed as solid Residual Waste in accordance with the requirements set out in Conditions 4.14(4) through 4.14(6).

(4) The Owner shall ensure that the Residual Waste is removed from the Site in accordance with the EPA and Regulation 347 to an approved or exempted waste disposal site or to a location with the appropriate jurisdictional approval or a license, if required.

(5) Unless the Residual Waste generated at the Site has been proven to be non-hazardous through sampling and analysis in accordance with this Approval, it shall be handled as a hazardous waste.

(6) The Owner shall ensure that the Residual Waste destined for final disposal at a landfill, is disposed of in compliance with the Land Disposal Restrictions requirements in the EPA and the Regulation 347.

4.15 Liquid Residual Waste Handling and Disposal:

(1) Liquid wastes generated at the Site and subject to the requirements set out in this Approval are limited to the following wastes:

- a. scrubber effluent;
- b. aqueous phase and non-aqueous phase liquid waste streams from PCB waste filtration; and
- c. floor washing residue and storage container run-off.

Scrubber Effluent

(2) The Owner shall measure and record the volume of each load of scrubber effluent discharged to the sanitary sewer, collect representative samples of each load and analyze the samples in accordance with the requirements of the City of Cornwall and the 2003 Model Sewer Use By-Law.

(3) The Owner shall make the results of all scrubber effluent analysis available to a Provincial Officer and the Public Liaison Committee upon request.

Streams from PCB Waste Filtration

(4) Aqueous phase and non-aqueous phase liquid waste streams from PCB waste filtration shall be tested as part of the hazardous or liquid industrial waste generated at the Site.

Liquid Industrial Waste Generated at the Site

(5) Waste generated from floor washing activities and from precipitation that came to contact with the Waste shall:

- a. be managed as liquid industrial waste;
- b. be stored at the Site in leak-proof container(s);
- c. be disposed of in accordance with Regulation 347 and the EPA; and
- d. not be thermally processed in the Metal Reclamation Furnace.

4.16 Cross-Contamination Prevention

(1) The Owner shall ensure that the incoming Waste and the Equipment used in handling of the incoming Waste are kept separate and do not come in contact with the Processed Waste unless the Equipment has been cleaned first, as required, to prevent cross-contamination.

4.17 Control of Discharges to the Atmosphere - Air

Scrubber Operating Conditions

(1) The Owner shall operate the acid gas scrubber at all times when wastes are being thermally treated in the Metal Reclamation Furnace and shall maintain the scrubber Baseline Parameters in the following ranges:

- a. a static pressure drop between 2 centimeters and 6 centimeters of water column across the packing material within the scrubber;
- b. line pressure between 13.8 kilopascals (2 pounds per square inch) and 34.5 kilopascals (5 pounds per square inch) at the spray nozzles located in the scrubber;
- c. a pH between 6 and 9 in the scrubber recirculation liquor;
- d. a scrubber recirculation liquor flow rate between 135 and 165 litres per minute; and
- e. a fan speed between 30 Hertz and 50 Hertz.

(2) The Owner shall record the values of Baseline Parameters.

Baghouse Operation

(3) Unless otherwise accepted by the District Manager, the activated carbon injection in the baghouse shall be at a rate of 35 grams per minute for 15 minute intervals every hour.

Ventilation Systems

(4) The Owner shall ensure that the carbon filter ventilation systems CF1, CF2, CF3 and CF4 are designed, installed, operated and maintained in accordance with the supporting documentation listed in the attached Schedule "A".

(5) The Owner shall ensure any systems used to exhaust heat be operated as follows:

- a. all heat exhaust fans shall be equipped with carbon imbedded filters; and
- b. any roof access hatch opening that is or shall be open to the atmosphere shall be equipped with carbon imbedded filter, if hatch is used to exhaust heat.

(6) The Owner shall ensure that the building air within the Main Building is vented to the atmosphere at all times through the ventilation systems CF1 and/or CF2.

(7) The Owner shall ensure that the building air within the North Building is vented to the atmosphere through the ventilation system CF4 whenever waste handling activities are carried out in the North Building.

Activated Carbon

(8) The Owner shall not permit Breakthrough of the activated carbon to occur at any time during the operation of the Equipment and shall ensure that the activated carbon in the Equipment is replaced before the activated carbon is Exhausted.

Negative Pressure

(9) The Owner shall ensure that the Main Building and the North Building are maintained under the negative pressure as compared to the atmospheric pressure outside when the Equipment is in operation.

(10) The Owner shall install monitors to continuously monitor differential pressure in the buildings where negative pressure is required under this Approval.

(11) The Owner shall maintain a pressure differential of less than minus 2 pascals or better, noting that temporary losses of pressure may be experienced during those times that a door must be opened for receiving and/or transporting materials and supplies.

(12) The Owner shall install alarms to indicate loss of negative pressure in the buildings.

4.18 Control of Discharges to the Atmosphere - Noise

(1) The Owner shall, at all times, ensure that the noise emissions from the Facility comply with the limits set out in Ministry Publication NPC-300.

4.19 Wastewater Management

(1) The Owner shall ensure that all wastewater resulting from the waste handling activities at the Site is contained within the wastewater collection system and is managed in accordance with the requirements set out in this Environmental Compliance Approval.

4.20 Stormwater Management

(1) The Owner shall ensure that all stormwater generated at the Site is managed as set out in this Approval.

5.0 EQUIPMENT OPERATION, MAINTENANCE AND SITE INSPECTIONS

5.1 Operation and Maintenance

(1) The Owner shall ensure that:

- a. the Equipment and related fixtures, appurtenances, equipment and services which are installed or used to achieve compliance with this Approval are properly operated and maintained at all times;
- b. the preventative maintenance programs recommended by the manufacturers of each piece of equipment in the Facility are implemented, the CEMs are maintained and calibrated in accordance with this Approval and as recommended by the manufacturers;
- c. ensuring by regular monthly inspection that the lid on the afterburner stack provides an effective seal preventing any flow of combustion gases through the afterburner stack in normal operation;
- d. a timetable outlining dates for specific preventative maintenance for each six (6) month period is prepared and made available for inspection by the Provincial Officer upon request;
- e. copies of preventative maintenance procedures referred to in Condition 5.1(1)b. are kept in a binder and made available for inspection by the Provincial Officer upon request;
- f. funding, staffing, training of staff, laboratory and process controls, quality assurance and quality control procedures of or in relation to the Facility are adequate to achieve compliance with this Approval;
- g. equipment and materials are kept on hand and in good repair for immediate use in the event of:
 - i. any change in process parameters which results or potentially could result in an excursion from approved operational ranges;
 - ii. any fire or explosion;
 - iii. any unauthorized discharge of a contaminant into the interior of any building; or
 - iv. any Spill;
- h. staff are trained in the use of the equipment and material and in the methods and procedures to be employed upon the occurrence of any event specified in Condition 5.1(1)g.

(2) The Owner shall prepare, not later than three (3) months after the date of this Approval, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including the following:

- a. routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
- b. procedures for maintaining the negative pressure in the areas where the Equipment is operated;
- c. procedures for monitoring the activated carbon for breakthrough;
- d. procedures for the replacement of activated carbon;
- e. procedures for determining acceptable ranges for pressure drop across activated carbon and for recording these parameters as part of a regular inspection program;
- f. operational and maintenance procedures to reduce contaminant loading on the equipment;
- g. the emergency procedures;
- h. the instructions for any record keeping activities relating to operation and maintenance of the Equipment;
- i. the procedures for recording and responding to complaints;
- j. procedures for operator training;
- k. all appropriate-measures to minimize dust, odours, noise and other nuisances generated from all potential sources at the Site;
- l. operating procedures for routine operation of the Works;
- m. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary; and
- n. repair and maintenance programs, including the frequency of repair and maintenance for the Works.

(3) The Owner shall update the Manual referred to in Condition 5.1(2) such that the inspection, maintenance, replacement and operating procedures for the scrubber liquor filtration system and associated pressure gauges, including solid waste handling and identification of a dedicated waste storage area for any solid wastes generated by the filtration system, are included in the Manual prior to operating the filtration system.

(4) The Owner shall implement the recommendations of the Manual.

5.2 Spare Parts

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

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

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

5.3 Inspections and Inspection Program

Inspection Program

(1) The Owner shall maintain at the Site a comprehensive written inspection program which includes procedures for inspections of all aspects of the Site's operations including the following:

- a. all waste and/or reagent loading/unloading/storage/handling/processing/treating areas;
- b. all air and spill containment systems to ensure the integrity of the systems;
- c. the Works;
- d. the Equipment, as defined in this Approval;
- e. condition of all instruments for monitoring required under this Approval;
- f. security fence and property line;
- g. presence of the on and off-Site fugitive dust emissions, litter or odours from the operation of the Site; and
- h. spills, discharges or any deteriorations that may cause an Adverse Effect.

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

Inspections

(3) The inspections required in Condition 5.3(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.

(4) The Owner shall visually inspect each PCB waste container immediately upon receipt at the Site.

(5) The Owner shall promptly remedy/correct any malfunction or deficiency detected during the inspections.

6.0 WASTE QUALITY CRITERIA and END USE or DISPOSAL

6.1 Processed Non-Porous Waste

Steel/Metal Containers and Metal Constituents of Electrical Equipment

(1) The Owner shall be deemed to have successfully decontaminated steel or metal containers and metal constituents of Waste Electrical Equipment if the surface of the decontaminated steel or metal containers and metal constituents of Waste Electrical Equipment contains less than 10 micrograms of PCBs per 100 square centimetres.

(2) Decontaminated steel or metal containers and metal constituents of Waste Electrical Equipment shall be transferred off-Site in accordance with the requirements of the EPA and Regulation 347.

Pipes

(3) The Owner shall be deemed to have successfully decontaminated a transmission pipe if the pipe surface contains less than 10 micrograms of PCBs per 100 square centimetres.

(4) Decontaminated transmission pipes may be returned to the same gas and utility industry for re-use as non-PCB equipment or shall be transferred off-Site in accordance with the requirements of the EPA and Regulation 347.

6.2 Processed Porous Waste

Porous Processed Waste and Containers Constructed of Porous Materials

(1) The Owner shall be deemed to have successfully decontaminated containers constructed from porous materials or successfully treated Porous Waste if the total PCB concentration in porous constituent of the decontaminated container or the Porous Processed Waste does not exceed 0.3 micrograms per gram.

(2) Furthermore, Porous Processed Waste, limited to thermally treated concrete and porcelain, that complies with the “inert fill” definition from Regulation 347 is exempted from Part V of the EPA and Regulation 347, unless set out differently in the EPA and Regulation 347.

(3) Porous Processed Waste that has physical attributes of soil shall not exceed the PCB concentration of 0.3 micrograms per gram or the PCB concentration for agricultural use listed in Table 1 of the Soil Standards, whichever is less.

Porous Materials End-Use

(4) Porous Waste that was successfully treated to comply with the Processed Waste Quality Criteria set out in Condition 6.2(1) through 6.2(3) shall be transferred off-Site in accordance with the requirements of the EPA and Regulation 347.

6.3 Waste for Transfer Quality Criteria

(1) The Waste intended for transfer off-Site shall not exceed the criteria set out in the Environmental Compliance Approval issued by the Ministry for the receiving waste disposal site or any other site approved to accept such waste by an appropriate government agency of equivalent jurisdiction.

6.4 Residual and By-Product Waste Quality Criteria

(1) Any Residual Waste and the By-Product Waste generated at the Site and is destined for transfer to a non-hazardous waste disposal site in Ontario shall not trigger any of the criteria from the definition of "hazardous waste" set out in the Regulation 347.

(2) Any Residual Waste and the By-Product Waste generated at the Site that meets any of the criteria from the definition of "hazardous waste" set out in the Regulation 347 shall be handled and disposed of in accordance with the Land Disposal Restriction requirements set out in the EPA and the Regulation 347.

(3) The Residual Waste and the By-Product Waste generated at the Site destined for transfer off-Site for further processing shall not exceed the criteria set out in the Environmental Compliance Approval issued by the Ministry for the receiving waste disposal site or any other site approved to accept such waste by an appropriate government agency of equivalent jurisdiction.

Ash

(4) The Residual Waste limited to ash produced by the Facility shall be disposed of at a landfill approved to accept hazardous waste and in accordance with the Land Disposal Restriction requirements set out in the EPA and the Regulation 347, unless the ash has been proven to be non-hazardous, through sampling and analysis prior to disposal, in accordance with the testing requirements from this Approval.

Spent Activated Carbon

(5) The By-Product Waste limited to all spent activated carbon produced by the Site shall:

- a. be disposed of at a landfill approved to accept hazardous waste and in accordance with the Land Disposal Restriction requirements set out in the EPA and the Regulation 347, unless the spent activated carbon has been proven to be non-hazardous, through sampling and analysis prior to disposal, in accordance with the testing requirements from this Approval; or
- b. be transferred off-Site for regeneration, as appropriate.

Scrubber Effluent

(6) The By-Product Waste, limited to the scrubber effluent, shall comply with the City of Cornwall Sewer Use By-Laws and shall not exceed the I-TEQ concentration of 60 picograms per litre and the PCB concentration of 0.001 milligrams per litre.

Spent Solvent

(7) If the spent solvent is not tested, it is always considered a PCB waste and it shall be handled as such in accordance with this Approval, the EPA and Regulation 347.

Floor Washing Wastewater

(8) The By-Product Waste limited to floor washing wastewater and precipitation collected in waste containers is considered a liquid industrial waste and shall be handled as follows:

- a. wastewater may be processed at the Site but is not approved to be thermally treated in the Metal Reclamation Furnace; or
- b. wastewater shall be disposed off-Site if it wastewater quality is compliant with the receiving site's acceptance criteria.

6.5 Other Processed Waste, Waste for Transfer and Residual Waste Requirements

(1) The Processed Waste shall also comply with any other applicable requirements for the receiving site as required by the local municipality, the local conservation authority and any other applicable provincial/federal legislation.

7.0 PERFORMANCE REQUIREMENTS

7.1 DRE

(1) During the combustion of PCB waste, the Metal Reclamation Furnace shall be

operated at all times, so that DRE for PCBs shall be 99.9999% or more as determined in accordance with Condition 8.2 provided that in cases where the Owner believes the concentrations of PCB in the waste feed are too low for accurate determination of DRE or where uncertainties in the accuracy of sampling and analytical determination exist or where technological limits are reached resulting in an inability to demonstrate that the standard set in this Condition has been met but not in the violation of any other Condition in this Approval, the Owner shall demonstrate forthwith to the satisfaction of the Director that the inability to meet the standard set in this Condition is a result of the reason(s) described above and advanced, and not of inferior design, substandard operating practices or other reason and, if it can so demonstrate and the Director agrees in writing, the Owner shall be deemed to be in compliance with this Condition.

7.2 Emission Limits

(1) The Owner shall ensure that the Metal Reclamation Furnace shall be operated at all times of normal operation (except during start-ups, shut-downs and emergency start-ups and shut-downs) as indicated by the continuous monitoring systems, so as not to exceed:

- a. a concentration of carbon monoxide in the stack gas, of 15 parts per million by volume on a dry basis;
- b. a concentration of sulphur dioxide in the stack gas of 200 parts per million by volume on a dry basis;
- c. a concentration of organic matter in the flue gas in any ten (10) minute period, expressed as equivalent methane, of 100 parts per million by volume, on a dry basis;
- d. a concentration of particulate matter in the stack gas of 17 mg/Rm³ corrected to 11% oxygen;
- e. a toxicity equivalent concentration of dioxins and furans in the undiluted gases in the air pollution control system stack of 80 picograms/Rm³ normalized to 11% oxygen;
- f. a concentration of hydrogen chloride of 75 mg/Rm³ corrected to 11% oxygen or, alternatively, 90% removal of hydrogen chloride; and
- g. a concentration of mercury in the undiluted gases in the air pollution control system stack of 20 micrograms/Rm³ normalized to 11% oxygen.

(2) Notwithstanding Condition 7.2(1), the Owner shall optimize the operation of the Metal Reclamation Furnace so as to minimize the emissions of carbon monoxide and sulphur dioxide and, if after a sufficient period of operation as determined by the

Director, a different limit than that specified in Condition 7.2(1) is achieved on a regular basis which is not in violation of Condition 7.2(3), the Director may change the limits shown in Condition 7.2(1) to such limits as can be achieved in everyday operation except during start-ups, shut-downs and emergency start-ups and shutdowns.

(3) The Owner shall ensure that emissions from the Metal Reclamation Furnace stack in conjunction with emissions from all other sources at the Facility shall not result in concentrations at a Point of Impingement, which are greater than those shown in the O. Regulation 419/05.

(4) The Owner shall ensure that noise emissions from the Equipment comply with the limits determined in accordance with Publications NPC-205.

8.0 TESTING

(1) The Owner shall maintain a Quality Assurance/Quality Control (QA/QC) programme for sampling and analysis of wastes, as required by this Approval, and shall make the results of the QA/QC programme, including all analyses carried out by accredited laboratories, available for inspection upon request by the District Manager, the Director, any Provincial Officer and the Public Liaison Committee.

8.1 Incoming Waste

Waste Containing PCBs

(1) Prior to thermal treatment in the Metal Reclamation Furnace, the Owner shall determine the PCB content of the waste to be thermally treated in accordance with the Operation Manual listed in the attached Schedule "A".

Pharmaceutical Waste and Controlled Substances

(2) The Owner shall follow a formal acceptance procedure to determine the acceptability of each pharmaceutical waste stream and Controlled Substances. The acceptance procedure shall include:

- a. an identification of the physical and chemical characteristics of the waste;
- b. an evaluation of the suitability of the waste for processing by determining its flammability, flash point, reactivity, heat value and compatibility with the Metal Reclamation Furnace and scrubber; and
- c. a determination of the treatment acceptability of the waste based on safety of handling and products of combustion.

8.2 DRE testing

- (1) Unless otherwise approved by the Director, the Owner shall perform DRE testing annually, while while treating PCB waste such that three (3) (or more) batches of 1,000- kilogram load of typical PCB waste combinations are treated in the Metal Reclamation Furnace during each of the three (3) stack tests. The exact number of batches shall be determined on the basis of projected emissions so as to obtain measurable levels of PCBs in stack emissions.
- (2) Prior to testing, the Owner shall prepare a detailed pre-test protocol outlining the scope of stack testing, stack testing methods, process monitoring, a method for selection of typical PCB waste combinations for analyses, all analytical steps for every component of the batch and every portion of the stack sample and shall submit the pre-test protocol to the Director for approval.
- (3) If required in writing by the Director or the District Manager, the Owner shall also include in the pre-test protocol, a procedure for splitting samples for separate analyses by the laboratory of Owner's choice and the Ministry's Laboratory Services Branch.
- (4) The Owner shall perform DRE testing in accordance with a pre-test protocol approved by the Director and shall submit a final report for the Director's approval.
- (5) The Owner shall schedule the DRE testing such that the Ministry staff can be present on Site while testing is being carried out.
- (6) The Owner shall:
 - a. provide to the Ministry, for approval, a detailed final report describing all activities carried out during testing and summarizing the results of all monitoring, sampling and analyses including process and stack emissions as well as discussion of these results;
 - b. appended to the compliance source testing report for verification, detailed reports by originating organizations (sampling, analytical, witnessing and process monitoring); and
 - c. shall make copy of the report available to the Public Liaison Committee.

8.3 Treated/Decontaminated Non-Porous Waste (Metals)

Thermally Treated Metal Surfaces

- (1) To demonstrate compliance with the applicable Processed Waste Quality Criteria set out in Condition 6.1, the Owner shall test thermally treated metal surfaces, as follows:

a. metal surfaces from Waste Electrical Equipment shall be sampled as follows:

- i. as a minimum, five (5) random samples shall be taken each week of operation to represent all the types of decontaminated metal accumulated, including but not limited to copper (copper grades 1 and 2), aluminum, silica and oversized metal;
- ii. sampling and the analysis for PCBs shall be carried out in accordance with the Wipe Test procedure set out in the Protocol;

b. each decontaminated Askarel Transformer shall be sampled and tested for PCBs in accordance with the document entitled "PCB Transformer Decontamination, Standards and Protocols", CCME EPC-HW-105E, dated December 1995, as amended.

Solvent Decontaminated Metal Surfaces

(2) To demonstrate compliance with the applicable Processed Waste Quality Criteria set out in Condition 6.1, the Owner shall test metal surfaces decontaminated through a solvent wash, brush, wipe and cleanse, as follows:

a. except for drums, marine containers, large roll-off bins and other large non-porous containers, each decontaminated item shall be wipe-sampled and analyzed for PCBs;

b. drums shall be sampled as follows:

- i. as a minimum, two (2) random wipe samples shall be taken from the cleaned surfaces of the walls and/or the floor of the drum; and
- ii. the two (2) random samples shall be combined to generate a composite sample for testing;

c. marine containers, large roll-off bins and other large non-porous containers shall be sampled as follows:

- i. as a minimum, two (2) random wipe samples shall be taken from the cleaned surface of the walls and one (1) random sample shall be taken from the cleaned surface of the floor of the metal container;

d. Wipe Test sampling and the analysis for the PCBs shall be carried out in accordance with the procedures set out in the Protocol;

(3) To demonstrate compliance with the applicable Processed Waste Quality Criteria set out in Condition 6.1, the Owner shall test metal surfaces decontaminated through a solvent steep, dip and/or use of the solvent sonic bath, as follows:

a.

metal parts stored in a drum shall be sampled as follows:

- i. three (3) grab samples of metal parts shall be taken from three (3) representative depths of each drum (top, middle and bottom depths of the materials) to generate a composite sample for testing;
 - ii. should the results of the testing indicate compliance with the Processed Waste Quality Criteria set out in Condition 6.1, with the written concurrence of the District Manager, the frequency of sampling may be decreased to one (1) sample per drum; and
 - iii. should any test result demonstrate non-compliance with the Processed Waste Quality Criteria set out in Condition 6.1, the sampling schedule set out in Condition 8.3(3)a.i. shall be resumed;
- b. following decontamination, each large metal part shall be wipe-sampled and tested for PCBs; and
- c. Wipe Test sampling and the analysis for PCBs shall be carried out in accordance with the procedure set out in the Protocol;

Pipes - Decontamination Standard and Verification Procedures

(4) Before removing each processed transmission pipe from the dedicated pipe processing enclosure, the Owner shall verify that each transmission pipe has been successfully decontaminated, as follows:

- a. by sampling each pipe in accordance with the Wipe Test with two (2) random samples combined into one (1) sample and by having the composite sample analyzed by a reputable laboratory for total PCBs; or
- b. by having a Trained Personnel inspect each pipe visually to verify compliance with NACE 2 subject to the requirements of Condition 8.3(5), below.

(5) Before adopting the use of NACE 2 referred to in Condition 8.3(4)b. above, the Owner shall carry out a method correlation test by inspecting and testing the first five (5) pipes processed at the Site after the issuance of this Approval, as follows:

- a. each of the five (5) pipes shall be visually inspected by two (2) Owner employees independently of each other to verify that the pipe complies with NACE 2; and
- b. each of the five (5) pipes shall also be sampled and tested in accordance with the Wipe Test, pursuant to Condition 8.3(4)a., above, to determine if the surface of each pipe passes the Wipe Test.

(6) If the surface of a transmission pipe passes the Wipe Test and complies with NACE 2 or if the surface of a transmission pipe does not pass the Wipe Test and does not comply with NACE 2 as determined by both of the Owner employees independently of each other,

- a. the two (2) methods are deemed to correlate with each other;
- b. the two (2) Owner employees are deemed to be Trained Personnel, and
- c. the Owner may thereafter verify the success of the decontamination process by using either of the methods referred to in Condition 8.3(5).

(7) The Owner shall repeat the method correlation test, pursuant to Condition 8.3(6), before a new Owner employee may carry out an inspection pursuant to Condition 8.3(5)b.

8.4 Treated Porous Waste

Decontaminated Containers Including Porous Construction Materials

(1) Decontaminated containers including porous construction materials shall be tested for total PCBs and/or the PCBs leachate concentration.

(2) A composited sample shall be generated from grab samples consisting of the surface chips taken from a minimum of three (3) porous surfaces.

(3) The sampling shall be in accordance with the procedure for porous waste sampling set out in the document entitled "Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) prepared by the United States Environmental Protection Agency, dated May 2011, as amended, or in accordance with the sampling protocol approved by the Director.

(4) The total PCBs testing shall be in accordance with the Protocol and the leachate concentration testing shall be in accordance with the Regulation 347.

Concrete, Porcelain, etc.

(5) The Owner shall:

- a. from every thermal treatment batch where the Porous Waste is present, collect a representative grab sample of each waste category comprising the Treated Porous Waste;

- b. collect the grab samples in separate and dedicated pails;
- c. homogenize each pail;
- d. sample each pail and generate a representative composite sample in accordance with the procedures set out in the Protocol; and
- e. test the composite sample of the Treated Porous Waste in accordance with the procedures set out in the Protocol.

Disposal or End-Use

(6) Porous Waste that complies with the applicable Processed Waste Quality Criteria set out in Condition 6.2 shall be transferred off-Site in compliance with the requirements of the EPA and Regulation 347.

(7) The Owner shall ensure that the Processed Waste is removed from the Site to an approved or exempted waste disposal site or to a location with the appropriate jurisdictional approval or a license, if required.

(8) The Owner shall ensure that the Processed Waste destined for final disposal at a landfill, is disposed of in compliance with the Land Disposal Restrictions requirements in the EPA and the Regulation 347.

8.5 RESIDUAL WASTE

Metal Reclamation Furnace Ash, Air Pollution Control Ash and Spent Carbon

(1) Metal Reclamation Furnace bottom ash, the air pollution control (APC) ash and spent carbon from the ventilation units are considered to be the PCB wastes unless they are tested to prove to be a non-PCB waste.

(2) If characterizing the Metal Reclamation Furnace bottom ash, the Owner shall sample and test the ash in accordance with the following:

- a. collect a grab sample of the ash from each batch, collect the grab samples into the collection pail and homogenize the contents of the pail in accordance with Waste Sampling and Characterization protocol included in the attached Schedule "A";
- b. take aliquots from different depths of the pail in accordance with the Protocol or the Ministry's document entitled *Principles of Sampling and Analysis of Waste for TCLP under Ontario Regulation 347*, whichever method generates more samples;

- c. if waste-specific sampling method is not available in the documents listed in Condition 8.5(2)b., the chosen sampling method shall be for the waste with physical attributes most similar to ash;
- d. collect grab samples in accordance with the industry's best management practices to ensure that they are representative samples, and generate a composite sample for testing; and
- e. test the composite sample for PCBs and/or for leachate toxicity of PCBs and for metals in accordance with the Protocol or any other Ministry-acceptable applicable analytical method.

(3) If characterizing the APC ash, the Owner shall sample and test the ash in accordance with Waste Sampling and Characterization protocol included in the attached Schedule "A".

(4) If, the spent activated carbon from the CF1, CF2, CF4, Domex 1, Domex 2 and the roof hatch carbon filters and/or any other filter media that is used to control emissions from the Site are to be transferred off-Site for further treatment or final disposal, the wastes shall be sampled and in accordance with Waste Sampling and Characterization protocol included in the attached Schedule "A".

Scrubber Effluent

(5) Prior to sending the scrubber effluent produced during the incineration of PCB waste for disposal to the sanitary sewer, the Owner shall:

- a. ensure that the I-TEQ concentration is less than 60 picograms per litre and the PCB concentration is less than 0.001 milligrams per litre;
- b. measure and record the volume of the effluent;
- c. unless otherwise required by the City of Cornwall, collect representative samples of the effluent, use these effluent samples to prepare representative composite samples and analyze the composite samples in accordance with the Waste Sampling and Characterization protocol included in the attached Schedule "A"; and
- d. inform the Public Liaison Committee of any changes to the scrubber effluent monitoring program as approved by the Regional Director and make the results of these analyses available to the Provincial Officer and the Public Liaison Committee upon request.

(6) The Regional Director may, in agreement with the City of Cornwall, reduce the

scope and frequency of scrubber effluent sampling after the results of six (6) tri-monthly monitoring events become available.

Solvent Decontamination Waste

(7) Unless the spent solvent is disposed of as a PCB waste, the Owner shall sample and analyze the spent solvent for PCBs in accordance with the Protocol.

Scrubber Liquor Filtration System Solid Residual Waste

(8) The Owner shall ensure that any solid wastes generated by the scrubber liquor filtration system, including the used filter material, are disposed of at a waste disposal site approved for disposal of hazardous waste, unless the waste has been proven to be non-hazardous through sampling and analysis prior to its disposal.

Scrubber Sludge

(9) The Owner shall sample and test the scrubber sludge in accordance with the Waste Sampling and Characterization protocol included in the attached Schedule "A".

Floor Wash Water

(10) The Owner shall:

- a. sample each floor wash water tote in accordance with the Protocol or the Ministry's document entitled *Principles of Sampling and Analysis of Waste for TCLP under Ontario Regulation 347*, whichever method generates more samples; and
- b. test for total PCBs in accordance with the Protocol or any other Ministry-acceptable applicable analytical method.

8.6 Source Testing

(1) The Owner shall perform the following Source Testing at approximately one year intervals thereafter and after every change of the furnace firebrick walls, to determine the rate of emission of Test Contaminants into the ambient air from the Equipment.

(2) Source Testing for the Test Contaminants listed in Schedule "C" shall be carried out when the Equipment is thermally treating PCB wastes.

(3) The Director may reduce the scope and/or frequency of Source Testing after the results of five (5) annual tests are available. The Owner shall inform the Public Liaison Committee in writing if the Director reduces the scope and/or frequency of Source

Testing.

(4) In addition to testing specified in sub-conditions (1) and (2), the Owner shall perform Source Testing for test contaminants to be determined in consultation with the District Manager or the Director, after the initial optimization of the operation but no later than the third batch, when processing a cyto-toxic pharmaceutical waste.

(5) Source Testing shall be conducted as compliance testing as defined in the Ontario Source Testing Code.

(6) Prior to each Source Test, the Owner shall submit to the Manager a test protocol for Source Testing, including the pretest information required by the Ontario Source Testing Code. The Owner shall finalize the test protocol in consultation with the Manager and shall not commence the Source Testing until the Director has accepted the test protocol.

(7) The Owner shall submit each test protocol at least three (3) months prior to the annual Source Testing campaign at which time the Owner shall identify the waste categories intended to be tested and processed during the twelve-month period following the annual Source Testing campaign.

(8) The Owner shall not commence the Source Testing until the Manager has accepted the test protocol.

(9) The Owner shall notify the District Manager and the Manager in writing of the location, date and time of any impending Source Testing required by this Approval, at least fifteen (15) days prior to the Source Testing.

(10) The Owner shall submit a report on the Source Testing to the District Manager and the Manager not later than three (3) months after completing the Source Testing. The report shall be in the format described in the Source Testing Code, and shall also include, but not be limited to:

a. an executive summary;

b. records of operating conditions, including but not limited to all records produced by the continuous monitoring systems; and

c. the results of dispersion calculations in accordance with O. Regulation 419/05 indicating the maximum concentration of the Test Contaminants at the Point of Impingement.

(11) The Director may not accept the results of the Source Testing if:

- a. the Source Testing Code or the requirements of the Manager were not followed; or
- b. the Owner did not notify the District Manager and the Manager of the Source Testing; or the Owner failed to provide a complete report on the Source Testing.

(12) If the Director does not accept the results of the Source Testing, Director may require re-testing.

9.0 MONITORING

9.1 Operating Conditions Monitoring - Continuous Emission and Process Monitoring

(1) The Owner shall install and maintain monitoring equipment for the Metal Reclamation Furnace to continuously record:

- a. temperatures;
- b. oxygen on a 6-minute rolling average and carbon monoxide on a 10-minute rolling average, levels in the flue gas prior to entering the scrubber;
- c. sulphur dioxide levels on a 10-minute rolling average at the scrubber outlet; and
- d. hydrogen chloride at either inlet or outlet from the scrubber, or alternatively pH of the Scrubber recirculation liquor. The Owner may measure and record the amount of sodium hydroxide used during the processing of each batch of PCB wastes.

(2) The continuous monitoring systems shall be equipped with continuous recording devices and shall comply with the requirements outlined in the attached Schedule "B".

(3) The Owner shall conduct a relative accuracy test audit (RATA) once every twelve (12) months to verify the operation of the continuous monitoring systems for oxygen, carbon monoxide, sulphur dioxide and hydrogen chloride by following procedures established in consultation with the Manager.

9.2 Ambient Air Quality Monitoring

(1) During the first year after the issuance of this Approval, the Owner shall, using high volume samplers, collect 24-hour samples of ambient air at the site boundaries on at least five (5) separate occasions.

(2) The Owner shall ensure that the samples required by Condition 9.2(1) shall be analysed for total PCBs by an accredited laboratory including gaseous and particulate

phase following a sampling and analytical protocol to be agreed upon in consultation with the District Manager and approved by the Regional Director.

(3) The Owner shall prepare a sampling and analytical protocol during the first year following the issuance of this Approval, in consultation with the District Manager and submitted for the approval by the Regional Director.

(4) Unless otherwise directed in writing by the Regional Director, the Owner shall carry out ambient air quality monitoring after the first year as directed by the Regional Director.

(5) The Owner shall report the results of sampling required by Conditions 9.2(1) and 9.2(4) to the District Manager by March 1 of the year following the sampling date.

9.3 Phytotoxicology/Terrestrial Monitoring

(1) Unless otherwise directed in writing by the Supervisor, in September of each year the Owner shall monitor the impact of emissions from the Facility on the terrestrial environment in accordance with the most current phytotoxicology and terrestrial monitoring protocol (P & T Protocol) as accepted by the Supervisor.

(2) The Owner shall not make any other changes to the P & T Protocol, including sampling frequency, the receptors to be monitored, the sampling time, parameters to be measured, sampling locations, and sampling and analytical methods, without prior written concurrence from the Supervisor.

(3) The Owner shall notify the District Manager and the Public Liaison Committee of any request to the Supervisor for changes to the P & T Protocol.

(4) Owner shall prepare and submit an annual summary report on the phytotoxicology and terrestrial monitoring data, to the District Manager, the Supervisor and the Public Liaison Committee, by March 1 of the year following the sampling date, in a format acceptable to the District Manager, the Supervisor and the Public Liaison Committee.

9.4 Building Wipe Tests

Transmission Pipe/Oversized PCB Waste Transfer Route

(1) The Owner shall conduct a Wipe Test on a weekly basis along the transmission pipe/Oversized PCB Waste transfer route, near the dedicated enclosure wherein the transmission pipes/Oversized PCB Waste are stored and processed and near the personnel decontamination area associated with contaminated transmission pipes/Oversized PCB Waste processing.

East Building

(2) The Owner shall conduct a Wipe Test near the entrance into the East Building on a weekly basis when PCB wastes are stored there.

Post-Treatment Room and the Shop

(3) The Owner shall conduct a random Wipe Test in two locations in the Post-Treatment Room and the Shop once in any week in which PCB consolidation are conducted in the Post-Treatment Room and/or the Shop.

9.6 GROUNDWATER MONITORING

(1) The Owner shall carry out the groundwater monitoring in accordance with the supporting documentation listed in the attached Schedule "A".

9.7 STORMWATER MONITORING

(1) The Owner shall, upon issuance of this Approval, carry out the following monitoring program:

a. All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.

b. Samples shall be collected and analyzed at the following sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed:

i. Sample Point Locations:

- A. Location A [i.e. formerly "East Swale"];
- B. Location B [i.e. Outlet of Drainage Ditch 'B'];
- C. Location C [i.e. Discharge point form Holding Tank]
- D. Location D [i.e. Upstream from the Site on Industrial Park Drive];
- E. Location E [i.e. Upstream from the Site on Optimum Drive]
- F. Location F [i.e. Downstream of the Site]; and
- G. Location G [i.e. where Donihee Drain crosses Boundary Road].

ii. Frequency of two (2) times per year as follows:

- A. Once in the spring (between April and May); and
- B. Once in the fall (between September and October)

iii. Sample Type: Grab

iv. Parameters: Copper, Hardness, Total PCBs, Total Suspended Solids (TSS), and Zinc

c. The Owner shall do the following:

- i. If a threshold limit of 0.05 microgram per litre Total PCBs in water at Downstream (Station F) are exceeded for two (2) consecutive sampling periods which are higher than the "Upstream" (Station D and E) and is correlated with a spike in total PCBs concentrations at either on-site sample locations Stations (A, B, or C) then additional sediment sampling shall be conducted at Stations F and G.
- ii. If the Total PCBs concentration at F and G exceeds 0.07 microgram per gram (Lowest Effect Level for total PCBs) then the sediment sample from F and G will be analyzed for the 12 dioxin-like PCB congeners in order to calculate the Toxic Equivalency (TEQ) using the Toxic Equivalent Factor (TEF) for fish as defined by the World Health Organization (1998). If the calculated TEQ from additional PCB analysis of sediment at Locations F and G has a TEQ that exceeds the 21.5 picogram per gram then Benthic and Young-of-the-Year (YOY) Fish Sampling for PCB concentrations in Fish Habitat areas in Donihee Drain between Boundary Road and Grey Creek shall be conducted.

d. The methods and protocols for sampling, analysis, and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

- i. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (August 1994), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions;
- ii. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition) as amended from time to time by more recently published editions; and
- iii. in respect of any parameters not mentioned in Conditions 9.7(1)d.i. and 9.7(1)d.ii, the written approval of the District Manager, which approval shall be obtained prior to sampling.

e. The measurement frequencies specified in Condition 9.7(1)b. in respect of any parameter are minimum requirements which may, after thirty (36) months of monitoring in accordance with this Condition, be modified by the Director in writing from time to time.

f. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation, maintenance and

monitoring activities required by this Approval.

10.0 HOUSEKEEPING and NUISANCE IMPACT CONTROL

10.1 Vermin and Vectors

(1) The Owner shall implement necessary housekeeping procedures to eliminate potential sources of attraction for vermin and vectors.

10.2 Litter

(1) The Owner shall pick up the litter at the Site, as required to prevent its escape from the Site.

10.3 Vehicles and Traffic

(1) The Owner shall ensure that all vehicles leaving the Site are not leaking or dripping wastes or wastewater when leaving the Site.

(2) Should the Owner become aware that a vehicle delivering Waste to the Site has leaked waste and/or wastewater on the municipal roadways, the Owner shall immediately report the violation to the owner of the vehicle(s) and to the District Manager.

(3) The Owner shall ensure that vehicles leaving the Site do not drag mud or waste onto the public roadways.

(4) The Owner shall ensure that the wheels of all vehicles departing from the Site are inspected and cleaned, as required, prior to the vehicles' departure from the Site.

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

(6) The Owner shall ensure that the vehicles transporting any wastes from the Site are appropriately covered as they depart from the Site, so that fugitive dust or odour emissions are minimized during the transit to their destination.

(7) Only haulers approved by the Ministry, as required, shall be used to transport any waste from the Site.

(8) The Owner shall ensure dust emissions are minimized during loading of vehicles for transportation off the Site.

11.0 Complaints Response Procedure

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

(2) If at any time, the Owner receives a complaint regarding the operation of the Site, the Owner shall respond to the complaint according to the following procedure:

- a. as soon as practicable after the complaint is received and notification shall be immediately made to the District Manager during the period starting at 8:15 a.m. and ending at 4:30 p.m. from Monday to Friday and to the Spills Action Centre during other times;
- b. each complaint shall be recorded on a formal complaint form entered in a computerized tracking system;
- c. the information recorded shall include the following:
 - i. the nature of the complaint;
 - ii. circumstances of the complaint including the wind direction and other weather conditions; and
 - iii. the name, address and the telephone number of the complainant, if available;
- d. the time and date of the complaint;
- e. upon notification of the complaint, appropriate steps shall be initiated to determine all possible causes of the complaint, the necessary actions that are needed to eliminate the cause of the complaint shall be taken and a formal reply to the complainant shall be forwarded; and
- f. written report within one (1) week of the complaint detailing what actions, if any, were taken to identify and remediate the cause of the complaint, the name(s) of Owner personnel responsible for handling the incident and a description of the measures taken to prevent a similar occurrence in the future, shall be submitted to the District Manager.

12.0 OPERATIONS MANUAL & STAFF TRAINING

12.1 Operations Manual

(1) The Owner shall maintain an Operations Manual, including all Standard Operating Procedures (SOPs) for the Site. As a minimum, the Operations Manual must contain

the following:

- a. outline of the responsibilities of the Site personnel;
- b. personnel training protocols;
- c. Site operating procedures, including the operation of the Metal Reclamation Furnace and the following Carbon Filters operation and maintenance procedures:
 - i. procedures for maintaining the Main Building and the North Building under negative pressure;
 - ii. procedures for routine operation, inspection and maintenance of the Carbon Filters in accordance with good engineering practices and as recommended by the equipment suppliers;
 - iii. operational and maintenance procedures to reduce contaminant loading on the Carbon Filters and the monitoring of the Carbon Filters for Breakthrough; and
 - iv. procedures for the replacement of activated carbon in the Carbon Filters;
- d. sampling, testing and monitoring procedures as required by this Approval;
- e. required data recording procedures;
- f. 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;
- g. the contingency plans for the Site;
- h. Equipment and Site inspection procedures, as required by this Approval;
- i. nuisance impact control and housekeeping procedures, as required by this Approval;
- j. procedures for handling and recording complaints as described in this Approval;
- k. the routine operating and maintenance procedures, including inspection, maintenance, replacement and operating procedures for the scrubber liquor filtration system and associated pressure gauges, including solid waste handling and identification of a dedicated waste storage area for any solid wastes generated by the filtration system;
- l. the emergency procedures;

- m. The instructions for any record keeping activities relating to operation and maintenance of the Metal Reclamation Furnace;
- n. the procedures for recording and responding to complaints;
- o. all appropriate measures to minimize dust, odours, noise and other nuisances generated from all potential sources at the Facility;
- p. operating procedures for routine operation of the Works;
- q. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary; and
- r. repair and maintenance programs, including the frequency of repair and maintenance for the Works.

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

12.2 Training

(1) Site employees shall be trained with respect to the following:

- a. operation and management of the Site and the Works, or area(s) within the Site, as per the specific job requirements of each individual employee in accordance with the Operations Manual required by Condition 12.1(1), above;
- b. terms and conditions of this Approval, relevant to the specific job requirements of each individual employee in accordance with the Operations Manual required by Condition 12.1(1), above;
- c. environmental, and occupational health and safety concerns pertaining to the wastes to be handled;
- d. emergency first-aid information and the use of the Equipment and materials outlined in the Emergency Response Plan;
- e. relevant waste management legislation and regulations, including the *EPA and Regulation 347*; and
- f. sampling/testing protocols required for the characterization of the incoming Waste and the outgoing wastes.

(2) The Owner shall ensure that the 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.

(3) A listing of all trained site personnel responsible for the processing of waste shall be placed in a visible and conspicuous location in the Facility.

13.0 EMERGENCY RESPONSE AND REPORTING

13.1 Emergency Response Plan

(1) The Owner shall maintain and keep up-to date the existing Emergency Response Plan for the Site. The Emergency Response Plan shall be revised, as required but at least once a year, in consultation with the District Manager, if requested by the District Manager. The Owner shall also invite the City of Cornwall, the Cornwall Fire Department and the Eastern Ontario Health Unit to provide input and/or comments into revisions of the Emergency Response Plan. The Emergency Response Plan, as a minimum must include the following:

- a. emergency response procedures to be undertaken in the event of a spill, process upset, bypass, power failure, fire or any other abnormal or 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 Waste not meet the Quality Criteria set out in this Approval;
- e. procedures and actions to be taken should the outgoing Residual Waste or the Waste destined for transfer off-Site not meet the Quality Criteria set out in the receiving site's Environmental Compliance Approval;

- f. procedures and actions to be taken should the Processed Waste fail to meet the required Quality Criteria;
- g. procedures and actions to be taken should the temporary storage of the Waste or of any other 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 environmental impact control measures; and
- i. procedures and actions to be taken should the occurrence of complaints require the Owner to suspend the Waste handling activities at the Site.

(2) The Owner shall submit to the District Manager, Cornwall Fire Chief, the Eastern Ontario Health Unit and the Clerk of the City of Cornwall an updated Emergency Response Plan within thirty (30) days of any amendment to the Plan.

(3) An up-to-date version of the Emergency Response Plan shall be kept at the Owner's office, in a central location known and available to all Site personnel.

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

(5) The Owner shall ensure that at least one employee trained as an Emergency Coordinator is available at all times, either on the premises or on call and within 30 minutes travel time from the Site, with the responsibility to coordinate the emergency response activities. A list containing the names of the Emergency Coordinator, the alternates, and the on-call co-ordinator, with the office and home phone numbers for each of them, shall be posted in a conspicuous place for easy access by all employees.

(6) The Owner shall train the Emergency Coordinator and his alternate for coordination of the emergency response activities.

(7) The Owner shall ensure that all Site employees are fully trained in the use of the Equipment and materials outlined in the Emergency Response and in the procedures to be employed in the event of an emergency.

13.2 Emergency Response

(1) The Owner shall immediately take all necessary measures, as set out in the Emergency Response Plan, to handle the emergency situations occurring at the Site.

13.3 Emergency Reporting

(1) 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 as to the nature and cause of the Spill, and the action taken for clean-up, correction and prevention of similar future occurrences.

(2) 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.

13.4 Back-Up Power

(1) The Owner shall maintain in working condition a power generator at the Site to enable the continued operation of the afterburner in the Metal Reclamation Furnace and associated monitoring equipment during a power failure so as to ensure and verify no increase in air emissions.

(2) In the event of a power outage, the Owner shall start the power generator immediately and maintain operation of the afterburner of the Metal Reclamation Furnace and the CEMs until power is restored or waste can be safely removed from the primary chamber.

13.5 Back-up Natural Gas

(1) In the event of a loss of natural gas from the main supply line, the Owner shall store on site sufficient quantities of natural gas to continue and complete burning in the Metal Reclamation Furnace.

14.0 RECORDS KEEPING

14.1 Tracking

(1) The Owner shall maintain both a computerized and a paper tracking system for all wastes received, processed and transferred from the Site. These records shall include as a minimum:

- a. date, quantity, type, class, characteristics and the source of the Waste received at the Site;
- b. monitoring information available at the time of processing;
- c. date, quantity, type, class, characteristics and the destination of the Processed Waste directed for re-use off-Site;
- d. quantity, type, class, characteristics and the destination of any Processed Waste directed for disposal; and

e. quantity, type, class, characteristics and the destination of any Processed Waste directed for transfer off-Site for further processing.

14.2 Daily Activities

(1) The Owner shall maintain a written or digital record of daily 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 of receipt, the name of the Waste generator and the quantity for each waste category received at the Site;
- b. results of the incoming Waste characterization and description of the method used, as required by this Approval;
- c. the Waste processing and treatment activities undertaken at the Site;
- d. activated carbon usage rate and justification for any change to the previously set out rate;
- e. date, quantity, type, quality (including the analytical data from any compliance testing) of the Waste that was thermally treated;
- f. date of processing, including thermal treatment, of each waste category and the name of the Trained Personnel responsible for the processing;
- g. date, quantity, type, quality (including the analytical data from any compliance testing) and the destination of any of waste category destined for transfer off-Site for further processing;
- h. date, quantity, type, quality (including the analytical data from any compliance testing) and the destination of any of waste category destined for transfer off-Site for final disposal;
- i. date, quantity, type, quality (including the analytical data from any compliance testing, if applicable) and the destination of the Rejected Waste transferred off-Site and the reason for rejection; and
- j. the running total of the following wastes received at the Site between January 1st of each year and the current date:
 - i. all wastes categories;
 - ii. the unprocessed Waste temporarily stored at the Site;
 - iii. the Processed Waste amount temporarily stored at the Site;
 - iv. the Residual Waste amount temporarily stored at the Site; and
 - v. housekeeping activities.

14.3 Sampling & Testing/Characterization Records

(1) The Owner shall establish and maintain a written or digital record of all sampling

and testing activities at the Site as required by Condition 8.0, above. This record shall include, as a minimum, the following information:

- a. Waste type sampled, sample collection locations and volume collected if required by the District Manager;
- b. sample collection date and time if required by the District Manager;
- c. sample handling procedures;
- d. name of the person undertaking the sampling;
- e. parameters tested for and the results;
- f. name of the laboratory facility conducting the testing, if applicable; and
- g. conclusions drawn with respect to the results of the testing.

(2) The Owner shall maintain records of each evaluation under the pharmaceutical waste stream and Controlled Substances acceptance procedures and shall make them available for inspection upon request by the District Manager, any Provincial Officer and the Public Liaison Committee.

(3) The Owner shall maintain records of the PCB content determinations of the Waste thermally treated in the Metal Reclamation Furnace.

14.4 Monitoring Records

(1) The Owner shall establish and maintain a written or digital record of all monitoring activities at the Site as required by Condition 9.0, above. The record shall include, as a minimum, the following:

- a. all records produced by the continuous monitoring systems; and
- b. all records of all calibration and maintenance records associated with these systems.

14.5 Inspections, Maintenance and Repairs

(1) The Owner shall maintain a written or digital record of inspections and maintenance as required by Condition 5.0, above and of repairs of the Equipment. 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;
- e. the date, time and description of repairs/actions taken; and
- f. all records on the maintenance, repair and inspection of the Equipment.

(2) The Owner shall record the date when the carbon media in the Carbon Filters was changed, together with the analytical results required by as well as how and where the used carbon was disposed of or otherwise managed.

(3) The Owner shall keep records of inspections for a period of at least five (5) years from the date of their creation, and make these records available for inspection by staff of the Ministry.

14.6 Training

(1) The Owner shall maintain a written or digital record of training as required by Condition 12.2, above. The record shall include, as a minimum, the following:

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

14.7 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, including any upset conditions associated with the operation of the Equipment;
- b. description of how the emergency situation was handled and what remedial actions were taken;
- 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.

14.8 Complaints Response Records

(1) The Owner shall establish and maintain a written or digital record of all complaints and the responses as required by Condition 11.0, above.

14.9 Rejected Waste Records

(1) The Owner shall establish and maintain a written or digital record of the Rejected Waste handling activities at the Site as required by Condition 4.3, above. This record shall include, as a minimum, the following information:

- a. the reason for rejection;
- b. the origin of the Rejected Waste, if known; and
- c. final destination.

14.10 Annual Report

(1) By March 1 of each year, the Owner shall submit two copies, one electronic and one a hard copy, of an annual report to the District Manager covering activities which have taken place at the Site during the previous calendar year and activities planned for the upcoming year. The Owner shall provide a copy of the annual report to the Clerks of the City of Cornwall, the Eastern Ontario Health Unit and the Township of South Glengarry, upon request. Each report shall include as a minimum a summary of the following information:

a. Air:

- i. a summary of the continuous emission and process monitoring data, including average monthly and yearly values, concomitant standard deviations in the case of CO, O₂ and SO₂, number and total duration of exceedances of the Emission Limits and, as applicable, a list of reasons for the exceedances and a list of corrective actions;
- ii. a summary of the results of Source Testing, including average values, highest and lowest values, Point of Impingement values, a comparison of these values with the limits set out in this Approval, interpretation of these results and a list of corrective actions, if any;

b. Waste:

- i. an annual summary of the quantities of waste received, by type and handling;
- ii. a descriptive summary of wastes which were either rejected or received at the Site but not allowed for processing at the Site by this Approval, waste classes, reasons for rejection and where the rejected wastes were sent and the origin of wastes;
- iii. the volume of waste, by type, stored on the Site at the time of the annual report and a summary of these volumes throughout the preceding year;
- iv. annual quantity of the transferred Waste, the Processed Waste and the Residual Waste, by type, transported off-Site and their destinations;
- v. the results of the monitoring programs, analysis of the results, a description of required mitigative measures, if any, and recommendations;
- vi. summary of all floor Wipe Test results and results on all sampling and analysis

carried out on the activated carbon associated with exhaust systems at the Facility, together with any recommendations and/ or actions necessary due to the results;

- vii. a summary description of any significant changes implemented and/or planned to site operations, containment structures and equipment;
- viii. any environmental and operational problems, that could negatively impact the environment, encountered during the operation of the Site or identified during the facility inspections and any mitigative actions taken;
- ix. an updated site plan and an explanation of any changes to the previous site plan;
- x. any changes to the Emergency Response and Contingency Plan, the Operations Manual or the Closure Plan that required approval and have been approved by the Director or the District Manager since the last Annual Report;
- xi. summary of all complaints and actions taken in response to these complaints;
- xii. a descriptive summary of any spills, incidents or other emergency situations which have occurred at this Site, any remedial measures taken, and the measures taken to prevent future occurrences;
- xiii. the updated calculations of the Financial Assurance required for the Site;
- xiv. a summary of the compliance with the terms and conditions of this Approval; and

c. Stormwater

- i. the results of the monitoring programs, analysis of the results, a description of required mitigative measures, if any, and recommendations.

(2) The Owner shall retain all documentation listed in Schedule "A" for as long as this Approval is valid, and all documentation required by the conditions of this Approval for a minimum of five (5) years from the date of creation of the document. The Owner shall make all documents available upon request for inspection by the District Manager, any Provincial Officer and the Public Liaison Committee.

(3) The Owner shall keep up-to-date its Operations Plan, including all Standard Operating Procedures (SOPs) for preparation, processing and transfer of wastes, and make the documents available to any Ministry staff for inspection upon request.

(4) The Owner shall keep a copy of the latest Annual Report at the Owner's office, at all times.

15.0 District Manager Notification

15.1 Rejected Waste Notification

(1) The District Manager shall be notified in writing of the receipt of the Rejected Waste within four (4) business days of its receipt.

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

- a. quantity and type of the Rejected Waste;
- b. source of the Rejected Waste, if known;
- c. reason for the rejection;
- d. final destination of the Rejected Waste; and
- e. date of receipt and time and date of removal from the Site.

15.2 PCB Pipe Waste Receipt Notification

(1) The Owner shall notify in writing the District Manager at least three (3) business days in advance of each shipment of the PCB contaminated transmission pipes to the Site.

16.0 PUBLIC LIAISON COMMITTEE

(1) The Owner shall take all reasonable efforts to sustain a Public Liaison Committee made up of local representatives of the public, the Ministry and the Owner, and shall provide the Public Liaison Committee with access to all information that is available to the Ministry.

17.0 SITE CLOSURE

(1) The Owner shall,

- a. at least nine (9) months prior to closure of the Site, submit, for approval by the Director, a written the Site Closure Plan that shall include, as a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work; and
- b. within ten (10) days after closure of the Site, notify the Director, in writing, that the Site is closed and that the Closure Plan has been implemented.

Schedule "A"

1. Application for Certificate of Approval, File No. A420011, Part V Section 27 Waste Management, dated August 1997 (including Application Form dated February 27, 1997, Appendices A to K and the Contingency Plan, Operations Manual and Emergency Response Plan prepared by Groundtrax Inc.) and Application for Certificate of Approval (Air), File No.8-4206-97 , dated February 27, 1997 (including Application Form dated February 27,1997, Appendices A to K and the Contingency Plan, Operations Manual

and Emergency Response Plan prepared by Groundtrax Inc.).

2. Site Plan.

3. Floor Plan.

4. Application to amend Certificate of Approval No. A420011, dated September 28, 1998, including Appendices A to M and Application to Amend Certificate of Approval (Air) No.8-4206-97-986, dated September 28, 1998, including Appendices A to M. (wds & air)

5. Attachment 1, "PCB Protocols", to a letter from Nancy Dyck to Vlado Ozvacic dated May 7, 1999.

6. Application for a Provisional Certificate of Approval for a Waste Disposal Site, dated March 13, 2002, and all supporting information,

7. Application for approval, signed by Sathees Thurailingam, dated January 22, 2002, and supporting information.

8. Letter, signed by Sathees Thurailingam, dated March 18, 2003, and attached Protocol Information Sheets.

9. Letter, signed by Damian Rodriguez, dated April 30, 2003.

10. Floor Plan, Material Resource Recovery, Cornwall, Ontario, dated June 10, 2003.

11. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated May 20, 2003 and all supporting information.

12. Letter dated July 23, 2003, signed by Damian Rodriguez, and supporting information.

13. Facsimile dated July 31, 2003 providing Certificate of Amendment dated June 12, 1998 and Form B with an effective date of September 30, 2002, both documents issued under the Canada Business Corporations Act.

14. Letter dated August 7, 2003, signed by Damian Rodriguez, and supporting information.

15. Letter dated August 20, 2003, signed by Rick Stern of Bennett Environmental Inc.

16. Application for a Provisional Certificate of Approval for a Waste Disposal Site, dated March 20, 2004, signed by Damian Rodriguez complete with supporting information.

17. Site Plan dated March 2004.
18. Facsimile dated April 19, 2004 providing supporting information for the financial assurance estimate
19. E-mail from Damian Rodriguez to the Ministry, dated May 28, 2004, with regard to the carbon filter operation and the fire suppression system.
20. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated October 29, 2009, signed by Jeffrey Lee, Compliance Manager, Aevitas Inc., and all supporting information.
21. Material Resource Recovery's Operations Plan dated October 2009, submitted by MRR SRBP Inc., as part of the application listed as Item 19 above.
22. Email dated May 20, 2011 from Byron Day, Aevitas Inc. to Christina Ng, Ministry of the Environment, including additional information and amendment to the application listed as Item 19 above.
23. Emission Summary and Dispersion Modelling Report, submitted by AMEC, dated May 1, 2014 and signed by Akhter Iqbal.
24. Acoustic Assessment Report, submitted by AMEC, dated April 24, 2014 and signed by Mohammed Salim.
25. Application for Environmental Compliance Approval dated May 16, 2014 and signed by Roseanne O'Beirn and Vincent Lai, Aevitas Inc., including the attachments.
26. E-mail dated September 25, 2014 (11:22 p.m.) from Roseanne O'Beirn, Aevitas Inc. to Margaret Wojcik, and Lisa Chalmers, Ontario Ministry of the Environment and Climate Change with proof of First Nations consultation.
27. E-mail dated December 17, 2015 (11:58 a.m.) from Roseanne O'Beirn, Aevitas Inc. to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, including an attachment entitled "11 – OP Schedules. Pdf" and "7 – Requested List of Conditions to Alter.pdf".
28. E-mail dated February 17, 2016 (4:44 p.m.) from Roseanne O'Beirn, Aevitas Inc. to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, including attachments entitled "160217 – Cover Letter (waste) for responses to questions.pdf", "Margaret – 160217 Request for additional information final.pdf".
29. E-mail dated February 17, 2016 (4:53 p.m.) from Roseanne O'Beirn, Aevitas Inc. to

Jeffrey McKerrall, Ontario Ministry of the Environment and Climate Change, with attachments.

30. E-mail dated February 17, 2016 (5:01 p.m.) from Roseanne O'Beirn, Aevitas Inc.to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, with attachments.

31. E-mail dated June 23, 2017 (9:24 a.m.) from Roseanne O'Beirn, Aevitas Inc.to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, providing additional information on the proposal.

32. E-mail dated September-25-17 2:48 PM from Vincent Lai, Aevitas Inc.to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, including attachments entitled "Carbon saturation indicator bulletin.pdf", "Carbon saturation indicator.pdf" , "Carbon saturation indicator (CF1).pdf" and "Carbon saturation indicator (CF2).pdf".

33. E-mail dated October 3, 2017 (9:38 a.m.) from Roseanne O'Beirn, Aevitas Inc.to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, including attachments entitled "APC waste and Furnace Ash Results.xlsx and "171003Waste Sampling and Charact r4.docx" containing Waste Sampling and Characterization protocol.

34. E-mail dated October 3, 2017 (4:31 a.m.) from Vincent Lai, Aevitas Inc.to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change showing the locations of the doors in the facility.

35. E-mail dated October 4, 2017 (4:02 p.m.) from Roseanne O'Beirn, Aevitas Inc.to Jeffrey McKerrall, Ontario Ministry of the Environment and Climate Change, including an attachment entitled "171004 – Carbon Filters and Negative Pressure.docx".

36. E-mail dated October 19, 2017 (1:44 p.m.) from Roseanne O'Beirn, Aevitas Inc.to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, including an attachment entitled "171019 - Analytical Results - Treated Metals.xlsx".

37. E-mail dated October 23, 2017 (2:11 p.m.) from Roseanne O'Beirn, Aevitas Inc.to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, including attachments entitled "#1 Cu pic.jpg", "#2 Cu pic.jpg", "171023 - Pictures of Treated Transformer Cores and Shells.pdf" and "17T267332.pdf".

38. E-mail dated November 16, 2017 (4:55 p.m.) from Roseanne O'Beirn, Aevitas Inc. to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, including an attachment entitled "171116 ECA 420011.docx".

39. E-mail dated November 26, 2021 (1:43 p.m.) from Roseanne O'Beirn, Aevitas Inc., including an attachment entitled "2021 Aevitas Cornwall FA with Attachments.pdf" to provide the financial assurance re-evaluation.

40. E-mail dated July 12, 2023 (10:04 a.m.) from Carrie Parker, Aevitas Inc., to Margaret Wojcik, Ontario Ministry of the Environment, Conservation and Parks, including an attachment entitled "20230712_095854.jpg" to provide supplementary information for the financial assurance re-evaluation.

SCHEDULE "B"

PARAMETER:

Temperature

LOCATION:

The sample point for the Continuous Temperature Monitor shall be located at the location representing a minimum Residence Time of 2.0 seconds.

PERFORMANCE:

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

PARAMETER	SPECIFICATION
Type	shielded "K" type thermocouple, or equivalent
Accuracy	± 1.5 percent of

	the minimum gas temperature
--	-----------------------------

DATA RECORDER:

The data recorder must be capable of registering continuously the measurement of the monitor without a significant loss of accuracy and with a time resolution of 1 minutes or better.

RELIABILITY:

The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 95 percent of the time for each calendar quarter.

SCHEDULE "B" continued

PARAMETER:

Carbon Monoxide

INSTALLATION:

The Continuous Carbon Monoxide Monitor shall be installed at an accessible location where the measurements are representative of the actual concentration of carbon monoxide in the undiluted gases leaving the Equipment and shall meet the following installation specifications.

PARAMETER	SPECIFICATION
Range (parts per million, ppm)	0 to ≥ 15 ppm _{dv}

Calibration Gas Ports	close to the sample point
--------------------------	------------------------------

PERFORMANCE:

The Continuous Carbon Monoxide Monitor shall meet the following minimum performance specifications for the following parameters:

PARAMETER	SPECIFICATION
Span Value (nearest ppm equivalent)	2 times the average normal concentration of the source
Relative Accuracy	≤ 10 percent of the mean value of the reference method test data or ± 5 ppm, whichever is greater
Calibration Error	≤ 2 percent of actual

	concentration
System Bias	≤ 4 percent of the mean value of the reference method test data
Procedure for Zero and Span Calibration Check	all system components checked
Zero Calibration Drift (24-hour)	≤ 5 percent of span value
Span Calibration Drift (24-hour)	≤ 5 percent of span value

Response Time (90 percent response to a step change)	≤ 90 seconds
Operational Test Period	≥ 168 hours without corrective maintenance

CALIBRATION:

Daily calibration drift checks on the monitor shall be performed and recorded in accordance with the requirements of Report EPS 1/PG/7.

DATA RECORDER:

The data recorder must be capable of registering continuously the measurement of the monitor with an accuracy of 0.5 percent of a full scale reading or better and with a time resolution of 2 minutes or better.

RELIABILITY:

The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 90 percent of the time for each calendar quarter during the first full year of operation, and 95 percent, thereafter.

SCHEDULE "B" continued

PARAMETER:

Sulphur Dioxide

INSTALLATION:

The Continuous Sulphur Dioxide Monitor shall be installed at an accessible location where the measurements are representative of the actual concentration of sulphur dioxide in the gases leaving the Scrubber and shall meet the following installation specifications:

PARAMETER	SPECIFICATION
Range (parts per million, ppm)	0 to $\geq$ 200 ppm _{dv}
Calibration Gas Ports	close to the sample point

PERFORMANCE:

The Continuous Sulphur Dioxide Monitor shall meet the following minimum performance specifications for the following parameters:

PARAMETER	SPECIFICATION
Span Value (nearest ppm equivalent)	2 times the average normal concentration of

	the source
Relative Accuracy	≤ 10 percent of the mean value of the reference method test data
Calibration Error	≤ 2 percent of actual concentration
System Bias	≤ 4 percent of the mean value of the reference method test data
Procedure for Zero and Span Calibration Check	all system components checked

Zero Calibration Drift (24-hour)	≤ 2.5 percent of span value
Span Calibration Drift (24-hour)	≤ 2.5 percent of span value
Response Time (90 percent response to a step change)	≤ 200 seconds
Operational Test Period	≥ 168 hours without corrective maintenance

CALIBRATION:

Daily calibration drift checks on the monitor shall be performed and recorded in accordance with the requirements of Report EPS 1/PG/7.

DATA RECORDER:

The data recorder must be capable of registering continuously the measurement of the monitor with an accuracy of 0.5 percent of a full scale reading or better and with a time

resolution of 2 minutes or better.

RELIABILITY:

The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 90 percent of the time for each calendar quarter during the first full year of operation, and 95 percent, thereafter.

SCHEDULE "B" continued

PARAMETER:

Oxygen

INSTALLATION:

The Continuous Oxygen Monitor shall be installed at an accessible location where the measurements are representative of the actual concentration of oxygen in the undiluted gases leaving the Equipment and shall meet the following installation specifications:

PARAMETER	SPECIFICATION
Range (percentage)	0 to 20 or 0 to 25
Calibration Gas Ports	close to the sample point

PERFORMANCE:

The Continuous Oxygen Monitor shall meet the following minimum performance specifications for the following parameters:

PARAMETER	SPECIFICATION
Span Value (percentage)	2 times the average normal concentration of the source
Relative Accuracy	≤ 10 percent of the mean value of the reference method test data
Calibration Error	0.25 percent oxygen
System Bias	≤ 4 percent of the mean value of the reference method test data
Procedure for	all system

Zero and Span Calibration Check	components checked
Zero Calibration Drift (24-hour)	≤ 0.5 percent oxygen
Span Calibration Drift (24-hour)	≤ 0.5 percent oxygen
Response Time (90 percent response to a step change)	≤ 90 seconds
Operational Test Period	≥ 168 hours without corrective maintenance

CALIBRATION:

Daily calibration drift checks on the monitor shall be performed and recorded in accordance with the requirements of Report EPS 1/PG/7.

DATA RECORDER:

The data recorder must be capable of registering continuously the measurement of the monitor with an accuracy of 0.5 percent of a full scale reading or better and with a time resolution of 1 minute or better.

RELIABILITY:

The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 90 percent of the time for each calendar quarter during the first full year of operation, and 95 percent, thereafter.

SCHEDULE "C"

TEST CONTAMINANTS

PARTICULATE

Total Suspended Particulate Matter

METALS

As Arsenic

Cd Cadmium

Cr Chromium

Pb Lead

Hg Mercury

GASES

Hydrogen Chloride

Oxides of Nitrogen

Total Hydrocarbons

POLYAROMATIC HYDROCARBONS

Benzo(a)Pyrene

Benzo(e)Pyrene

2-Chloronaphthalene

Fluoranthene
Naphthalene
Pyrene

CHLOROBENZENES

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,3,5-Trichlorobenzene

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

2,4,5-Trichlorobenzene

2,3,6-Trichlorobenzene

1,2,4,5-Tetrachlorobenzene

1,2,3,5-Tetrachlorobenzene

1,2,3,4-Tetrachlorobenzene

SCHEDULE "C" continued

POLYCHLORINATED DIBENZO-P-DIOXINS

2,3,7,8 Tetrachlorodibenzo-p-dioxin (2,3,7,8 TCDD)

1,2,3,7,8 Pentachlorodibenzo-p-dioxin (1,2,3,7,8, PCDD)

1,2,3,4,7,8 Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8 HxCDD)

1,2,3,6,7,8 Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8 HxCDD)

1,2,3,7,8,9 Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9 HxCDD)

1,2,3,4,6,7,8 Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8 HpCDD)

POLYCHLORINATED DIBENZOFURANS

2,3,7,8 Tetrachlorodibenzofuran (2,3,7,8 TCDF)

1,2,3,7,8 Pentachlorodibenzofuran (1,2,3,7,8 PCDF)

2,3,4,7,8 Pentachlorodibenzofuran (2,3,4,7,8 PCDF)

1,2,3,4,7,8 Hexachlorodibenzofuran (1,2,3,4,7,8 HxCDF)

1,2,3,6,7,8 Hexachlorodibenzofuran (1,2,3,6,7,8 HxCDF)

2,3,4,6,7,8 Hexachlorodibenzofuran (2,3,4,6,7,8 HxCDF)

1,2,3,7,8,9 Hexachlorodibenzofuran (1,2,3,7,8,9 HxCDF)

1,2,3,4,6,7,8 Heptachlorodibenzofuran (1,2,3,4,6,7,8 HpCDF)

1,2,3,4,7,8,9 Heptachlorodibenzofuran (1,2,3,4,7,8,9 HpCDF)

POLYCHLORINATED BIPHENYLS

Total Polychlorinated Biphenyl Congeners

Dichlorobiphenyls

Trichlorobiphenyls

Tetrachlorobiphenyls

Pentachloro biphenyls

Hexachlorobiphenyls

Heptachlorobiphenyls

Octachlorobiphenyls

Nonachlorobiphenyls

Decachlorobiphenyls

SCHEDULE "C" continued

VOLATILE ORGANIC COMPOUNDS

Benzene

Bromomethane

2-Butanone

Dichlorodifluoromethane

1,2-Dichloroethane

Methylene-Chloride

2-propanone

Tetrachloroethylene

1,1,1-Trichloroethane

Tetrachloromethane

Trichlorofluoromethane

Trichloromethane

Trichlorotrifluoroethane

Trichloroethylene

Toluene

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

GENERAL

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

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

Condition 1.7(1) is included to ensure that the Site is operated under the corporate name which appears on the application form submitted for this approval and to ensure that the Director is informed of any changes. Condition 1.7(2) is included to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Approval.

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

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

Condition 1.11 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.

Condition 1.12 is included to ensure that the Owner maintains adequate liability insurance coverage.

SERVICE AREA, APPROVED WASTE TYPES, RATES & STORAGE CAPACITY

Condition 2.0 is included to specify the approved waste receipt rate, 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.

SIGNS and SITE SECURITY

Condition 3.0 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 3.0 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.

SITE OPERATIONS

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

Condition 4.2 is included to ensure that only the approved the waste types are accepted and managed at the Site.

Conditions 4.3 through 4.20 are included to ensure that waste or leachate management are undertaken in a way which does not result in an adverse environmental effect or a hazard to the environment or any person and 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.

SITE INSPECTION AND MAINTENANCE

Condition 5.0 is included to require the Site to be inspected and Equipment 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 environmental effect or a hazard to the health and safety of the environment or any person.

WASTE QUALITY CRITERIA and END-USE OR DISPOSAL

Condition 6.0 is included to identify the Quality Criteria that must be met before the Processed Waste, the Residual Waste and the By-Product Waste are considered suitable for their intended future re-use or transfer from the Site to their final destinations so that the health and safety of people is ensured and the environment is protected.

PERFORMANCE REQUIREMENTS

Condition 7.1 is included to ensure verification tests are carried out to demonstrate that efficient destruction and removal of PCBs from stack emissions and compliance with this Approval can be achieved in everyday operation.

Condition 7.2 is included to outline the minimum performance requirements considered necessary to prevent an Adverse Effect resulting from the operation of the Equipment.

TESTING

Condition 8.0 is included to set out sampling and testing requirements to ensure that reliable data is obtained from the testing activities required in this Approval. Condition 8.0 is also included to ensure that the Owner regularly tests the outgoing wastes to verify their ompatibility with the proposed final re-use or proposed destination.

MONITORING

Condition 9.0 is included to require monitoring of thermal treatment operating

parameters to ensure a properly functioning thermal treatment as per the Ministry's requirements. Condition 9.0 is also included to require environmental monitoring to ensure the health and safety of people and protection of the environment.

HOUSEKEEPING and NUISANCE IMPACT CONTROL

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.

Condition 11.0 is included to require the Owner to appropriately respond to any environmental complaints resulting from waste management operations at the Site.

OPERATIONS MANUAL & 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 REPORTING

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

RECORDS KEEPING

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

DISTRICT MANAGER NOTIFICATION

Condition 15.0 is included to ensure that the District Manager is notified of acceptance and handling of the Rejected Waste and receipt of the contaminated pipes at the Site.

PUBLIC LIAISON COMMITTEE

Condition 16.0 is included to require the Owner to establish a forum and provide reasonable access to the Site for the exchange of information and public dialogue on activities carried out at the Site to ensure open communication with the public and local authorities which helps to maintain high standards for the operation of the Site and

protection of human health and safety and of the natural environment.

CLOSURE

Condition 17.0 is included to ensure that final closure of the Site is completed in accordance with Ministry's standards.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A420011 issued on November 22, 2017

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land Tribunal within 15 days after receipt of this notice, require a hearing by the Tribunal. 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 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

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

DATED AT TORONTO this 31st day of July, 2023

Mohsen Keyvani, P.Eng.

Director

appointed for the purposes of Part II.1 of the
Environmental Protection Act

MW/

c: Area Manager, MECP Cornwall

c: District Manager, MECP Ottawa

Vincent Lai, Aevitas Inc.