



Ministry
of the
Environment

Ministère
de
l'Environnement

AMENDED PROVISIONAL CERTIFICATE OF APPROVAL
WASTE DISPOSAL SITE
NUMBER A290022
Issue Date: January 29, 2008

Ontario

Green-Port Environmental Managers Ltd.
4 Melanie Dr, No. Unit 23
Brampton, Ontario
L6T 4L1

Site Location: Mobile Unit

You have applied in accordance with Section 27 of the Environmental Protection Act for approval of:

The use and operation of mobile waste disposal site serving the Province of Ontario and including only the Mobile Unit and components, listed and described in the attached Schedule "A", and all mounted on a trailer, in order to:

- (a) drain contaminated oil from transformers, to decontaminate PCB contaminated transformers and have decontaminated metal parts recycled;
- (b) decontaminate PCB contaminated electrical cables and potheads using solvent, and have decontaminated metals recycled;
- (c) prepare inventory, repack and make ready for shipment, for final disposal, PCB waste that includes: PCB contaminated oils, transformer carcasses that have been drained from PCB contaminated oil, PCB capacitors, PCB contaminated soils, PCB contaminated concrete, PCB contaminated tar from ballasts, empty PCB contaminated drums, and PCB contaminated paints, solvents, and sludges; and
- (d) disassemble non-PCB contaminated transformers and have disassembled parts recycled,

All for specifically the following waste class: 243, as described in the "Ministry of the Environment Waste Classes" as amended January 1986,

All in accordance with the plans and specifications listed Schedule "B" which is attached to, and forms part of this Certificate A290022.

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

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (a) "**Act**" or "**EPA**" means the Environmental Protection Act, R.S.O. 1990, c. E.19, as amended;
- (b) "**Certificate**" means this Provisional Certificate of Approval for a Waste Disposal Site, including Schedules "A", "B", "C", "D", "E", "F", and "G" issued in accordance with Part V of the EPA;
- (c) "**Clean-up Criteria**" means the concentration of PCBs which is less than the concentration of PCBs in "PCB materials" as defined in *Ontario Regulation 362*;
- (d) "**Company**" means Green-Port Environmental Managers Ltd., including its officers, employees, agents or contractors;
- (e) "**Director**" means any Ministry employee appointed by the Minister pursuant to Section 5 of the EPA;
- (f) "**District Manager**" means the District Manager of the Ministry for the geographic area in which the mobile waste disposal site is to be operated;

CONTENT COPY OF ORIGINAL

- (g) "**Ministry**" means the Ontario Ministry of the Environment;
- (h) "**Mobile Unit**" means a mobile waste disposal site that is listed in Schedule "A" attached to this Certificate and in Schedule "A" attached to the Provisional Certificate of Approval for a Waste Management System A841480.
- (i) "**Non-PCB Wastes**" means wastes containing PCBs at concentrations less than the Clean-up Criteria;
- (j) "**Ontario Regulation 347**" means Ontario Regulation 347 - R.R.O. 1990, General - Waste Management, as amended from time to time, made under the EPA;
- (k) "**Ontario Regulation 362**" means Ontario Regulation 362 - R.R.O. 1990, Waste Management-PCBs, made under the EPA;
- (l) "**PCBs**" means any monochlorinated or polychlorinated biphenyl or any other mixture of them or any mixture that contains one or more of them, as defined in Section 1 of Ontario Regulation 362;
- (m) "**PCB Waste**" means PCB equipment, PCB liquid or PCB material as defined in Section 1 of Ontario Regulation 362;
- (n) "**Processing**" means draining oil from and decontaminating transformers, and to recycle separated metal components; decontaminating PCB electrical cables and potheads and recycling separated metals; repacking and making ready for shipment for final disposal, PCB contaminated oils, transformers carcasses, PCB capacitors, PCB contaminated soils, PCB contaminated concrete, empty PCB contaminated drums, and PCB contaminated paints, solvents, and sludges;
- (o) "**Regional Director**" means the Regional Director of the Ministry for the geographic area in which the mobile waste disposal site is to be operated; and
- (p) "**Site**" means the location at which the Mobile Unit is being operated, or is to be operated.

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

TERMS AND CONDITIONS

General Provisions

1. This Certificate supersedes and replaces all previously issued Certificates of Approval or any other Provisional Certificate of Approval issued under Part V of the *EPA* with respect to this specific operation.
2. Except as otherwise provided by these Conditions, the Company shall operate the Mobile Unit in accordance with the following:
 - (a) plans and specifications outlined in Schedule "B" attached to this Certificate, except when specified otherwise by the conditions of this Certificate;
 - (b) terms and conditions listed in this Certificate;
 - (c) Provisional Certificate of Approval for a Waste Management System A841480;
 - (d) Certificate of Approval (Air) No. 8-3239-95-006 or subsequent amendments; and
 - (e) all applicable municipal by-laws.
3. The requirements specified in this Certificate are the requirements under the *EPA*. The issuance of this Certificate in no way abrogates the Company's legal obligations to take all reasonable steps to avoid violating other applicable provisions of the *EPA* and other legislation and regulations.
4. The requirements of this Certificate are severable. If any requirement of this Certificate, or the application of any requirement of this Certificate to any circumstance, is held invalid, the application of such requirement to other circumstances and the remainder of this Certificate shall not be affected in any way.

5. The Company shall ensure compliance with all terms and Conditions of this Certificate. Any non-compliance constitutes a violation of the *EPA* and is grounds for enforcement.

6. (a) The Company shall, forthwith upon request of the Director, District Manager, or Provincial Officer (as defined in the *EPA*), furnish any information requested by such persons with respect to compliance with this Certificate, including but not limited to, any records required to be kept under this Certificate; and

(b) In the event the Company provides the Ministry with information, records, documentation or notification in accordance with this Certificate (for the purposes of this Condition referred to as "Information")

i. the receipt of Information by the Ministry;

ii. the acceptance by the Ministry of the Information's completeness or accuracy; or

iii. the failure of the Ministry to prosecute the Company, or to require the Company to take any action, under this Certificate or any statute or regulation in relation to the Information shall not be construed as an approval, excuse or justification by the Ministry of any act or omission of the Company relating to the Information, amounting to non-compliance with this Certificate or any statute or regulation.

7. The Company shall allow Ministry personnel, or a Ministry authorized representative(s), upon presentation of credentials, to:

(a) Carry out any and all inspections authorized by Section 156, 157 or 158 of the *EPA*, Section 15, 16, or 17 of the *Ontario Water Resources Act*, R.S.O. 1990, or Section 19 or 20 of the *Pesticides Act*, R.S.O. 1990, as amended from time to time, of any place to which this Certificate relates; and, without restricting the generality of the foregoing to:

i. enter upon the premises where the records required by the Conditions of this Certificate are kept;

ii. have access to and copy, at any reasonable time, any records required by the Conditions of this Certificate;

iii. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations required by the Conditions of this Certificate; and

iv. sample and monitor at reasonable times for the purposes of assuring compliance with the Conditions of this Certificate.

8. (a) Where there is a conflict between a provision of any document referred to in Schedule "B", and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence; and

(b) Where there is a conflict between documents listed in Schedule "B", the document bearing the most recent date shall prevail.

9. Should there be discrepancies between the provisions of this Certificate and any other Certificate of Approval issued under Section 27 of the *EPA* for the Site where the Mobile Unit is to operate, that Site Certificate of Approval shall take precedence.

10. The Company shall ensure that all communications/correspondence made pursuant to this Certificate include reference to the number of this Certificate.

11. Any information relating to this Certificate and contained in Ministry files may be made available to the public in accordance with the provisions of the *Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, C. F-31.

12. All records and monitoring data required by the Conditions of this Certificate shall be kept by the Company for a minimum period of three (3) years. These records shall be made available to staff of the Ministry upon request, as required under Conditions 6 and 7.

Notification - Change of Ownership

13. (a) The Company shall notify the Director, in writing, of any of the following changes within thirty (30) calendar days of the occurrence of the change:

- i. change of owner or operator or both;
- ii. change of address or address of new owner;
- iii. change of partners where the Company is or at any time becomes a partnership, and a copy of the most recent registration registered under the *Business Names Act* shall be included in the notification to the Director;
- iv. change of name of the corporation where the Company is or at any time becomes a corporation, and a copy of the most current "Initial Notice or Notice of Change" (Form 1, 2 of Ontario Regulation 189, R.R.O. 1980, as amended from time to time), filed under the *Corporation Information Act* shall be included in the notification to the Director; and
- v. change in director(s) or officer(s) of the corporation where the Company is or at any time becomes a corporation, and a copy of the most current "Initial Notice or Notice of Change" as referred to in d.

(b) In the event of any change in ownership of the Mobile Unit, the Company shall notify the succeeding (new owner) company of the existence of this Certificate, and a copy of such notice shall be forwarded to the Director.

(c) The Company shall ensure that all communications made pursuant to this Condition shall refer to this Certificate number A290022.

Pre-Operation Notification Requirements

14. (a) The Company shall notify the District Manager, in writing, of its intent to operate the Mobile Unit at a Site in the District Manager's area of jurisdiction.

(b) The notification shall be submitted a minimum of fifteen (15) business days prior to the operation of the Mobile Unit, or twenty-four (24) hours after finalization of the contract to commence work but not less than three (3) business days prior to the operation of the Mobile Unit.

(c) The notification shall include, but is not be limited to the following information:

- i. name, address, telephone number, and location of the Site at which the Company intends to operate;
- ii. description of the Mobile Unit or room(s) to be utilized for the operation including the information listed in Schedule "A" attached to this Certificate and Schedule "A" attached to the Provisional Certificate of Approval for a Waste Management System A841480;
- iii. Site plan for the location where the Company intends to operate, showing the following:
 1. property boundaries;
 2. buildings;
 3. site fencing;
 4. access control;
 5. placement of the Mobile Unit on the Site;
 6. storage location of waste to be processed and processed waste; and
 7. locations of manholes, catchbasins, open sewers, water bodies;
- iv. usage of properties adjacent to the Site where the Company intends to operate the Mobile Unit;
- v. proposed date and time of commencement of operation of the Mobile Unit;
- vi. proposed hours of operation for the Mobile Unit;

CONTENT COPY OF ORIGINAL

- vii. anticipated completion date and time of the operation of the Mobile Unit;
- viii. copy of this Certificate and of Provisional Certificate of Approval for a Waste Management System A841480;
- ix. copy of the letter from the Director confirming acceptance of the financial assurance;
- x. details of valid liability insurance of the Mobile Unit;
- xi. license plate and the location of issue for the vehicle used for transportation of the Mobile Unit; and
- xii. copy of the notification to the municipal clerk, or designate;
- xiii details of the Site-specific contingency plan as required under Condition 53; and
- xiv details of waste storage prior to processing in the Mobile Unit.

(d) In addition to the items listed under Condition 14 (2), the following information shall be included only for Transformer Draining/Disassembly/Recycling Operations, and Waste Repacking Operations:

- i. general description of PCB waste to be processed;
- ii. approximate amount of PCB waste to be processed;
- iii. estimated amount of processed PCB waste resulting from the operation of the Mobile Unit;
- iv. final destination of processed PCB waste;
- v. proposed handling and storage procedures utilized for processed PCB waste;
- vi. description of operations to be carried out by the Mobile Unit with such information to be in accordance with this Certificate.

(e) In addition to the items listed under Conditions 14 (2) and 14 (3), the following information shall be included only for Transformer Draining/Disassembly/Recycling Operations:

- i. proposed handling, storage and/or disposal procedures utilized for all non-PCB wastes and decontaminated metals, generated by the operation of the Mobile Unit;
- ii. proposed destination of non-PCB wastes and decontaminated metals.

(f) The Company shall provide to the District Manager any additional information that the District Manager may require.

(g) This information shall be submitted in the form and within a time period acceptable to the District Manager.

(h) The Company shall not allow the Mobile Unit to be located or operated at the Site until the District Manager has provided, in writing, his concurrence of all required additional information.

15. A copy of the notification referred to in Condition 14 shall also be submitted to the clerk of the municipality in which the Company intends to operate or to such other municipal officer that the clerk designates in writing.

General Operating Conditions

16. The Company shall operate the Mobile Unit in compliance with the requirements set out in the following documents:

- (a) *EPA*;
- (b) *Ontario Regulation 347*;
- (c) *Ontario Regulation 362*;

CONTENT COPY OF ORIGINAL

(d) Storage of PCB Material Regulation, SOR/92-507;

(e) Transportation of Dangerous Goods Act and Regulations, SOR/85-77; and

(f) PCB Transformer Decontamination Standards and Protocols, CCME EPC-HW-105E.

17. (a) Only the Mobile Unit described in Schedule "A" attached to this Certificate and in Schedule "A" attached to the Provisional Certificate of Approval for a Waste Management System A 841480, shall be operated pursuant to this Certificate.

(b) In the event that the Company proposes to operate additional equipment, which is not a part of the Mobile Unit approved by this Certificate, a separate application shall be submitted to the Director, who may amend this Certificate or issue a separate Certificate of Approval for a Waste Disposal Site.

18. The operation of this Mobile Unit(s) is limited to the following:

(a) draining contaminated oil from transformers, decontamination of PCB contaminated transformers, and recycling decontaminated metal parts;

(b) decontaminating PCB contaminated electrical cables and potheads using solvent, and recycling decontaminated metals parts;

(c) preparing for inventory, repacking and making ready for shipment, for final disposal, PCB waste that includes: PCB contaminated oils, transformer carcasses from which PCB contaminated oil has been drained, PCB capacitors, PCB contaminated soils, PCB contaminated concrete, PCB contaminated tar from ballasts, empty PCB contaminated drums, and PCB contaminated paints, solvents, and sludges; and

(d) disassembling non-PCB contaminated transformers and recycling disassembled parts,

all for specifically the following waste class: 243, as described in the "Ministry of the Environment waste Classes" as amended January 1986.

19. (a) The Company shall not decontaminate askarel transformers.

(b) The Company shall not decontaminate mineral oil transformers having over 15,000 ppm of PCB in oil;

20. (a) For Transformer Draining/Disassembly/Recycling Operations, the Mobile Unit shall only be operated at PCB storage sites, for which Director's Instructions have been issued under *Ontario Regulation 362*, or in transformer substations equipped with appropriate secondary spill containment.

(b) For operations other than those described under Condition 20 (a), The Mobile Unit shall only be operated at a site where the waste is generated, or consolidated according to Director's Instructions issued under *Ontario Regulation 362*.

(c) No waste shall be transported from other generators/sites to the Mobile Unit for processing.

21. (a) No waste shall be transported in the Mobile Unit.

(b) No waste shall be contained in the Mobile Unit while it is transported from one operating Site to another operating Site or to the storage location as listed in the supporting documentation contained in Schedule "A".

22. The Company shall not locate the Mobile Unit at a Site for a period exceeding sixty (60) calendar days, except with the written concurrence of the Regional Director.

23. The Mobile Unit shall only be operated when the appropriately trained personnel are in attendance.

24. The Company shall operate only up to two shifts per day as described in Item 14 of "Schedule B".

25. The Company shall cover any open or uncovered containers or other holding areas that contain waste to be processed

by the Mobile Unit or waste which is to be left on site or decontaminated metal components prior to removal from the Site.

26. Disposal of PCB waste and non-PCB waste shall be the responsibility of the owner/generator.

27. Should the operation of the Mobile Unit at a Site result in any environmental adverse effects and cause complaints from the public, the Regional Director, upon the District Manager's recommendation, may order the Mobile Unit to immediately cease operation.

Transfer of Recycling Operations from Mobile to Fixed Sites

28. The transfer of processing operations from the Mobile Unit to a fixed facility at a Site in the event that placement of the Mobile Unit is not feasible at that Site, shall take place only under the following conditions, if a room(s) is available:

(a) Director's Instruction is issued allowing transfer of PCB waste to the room(s) at the Site;

(b) Spill protection is provided by 15 mil polytarp for all processing areas in the room(s);

(c) The central processing area is completely enclosed by a 15 mil polytarp on all sides and ceiling, and the HEPA unit maintains negative air pressure;

(d) The HEPA unit is exhausted to the exterior of the unit; and

(e) In all other aspects, the technology remains the same.

Testing for Transformer Draining/Disassembly Operations

29. (a) Mineral Oil Transformers having PCB content in oil less than 200 ppm may be drained and then scrapped without any further testing of metal surfaces or porous material. This is allowed as long as transformers are carefully drained and as long as the metal components are sent to a metal recovery facility.

(b) Mineral Oil Transformers having PCB content in oil more than 200 ppm shall be decontaminated and casings, laminations, wires and bushings that shall be recycled, shall be tested according to the methodology outlined in Schedule "C" attached to this Certificate.

(c) The Company may undertake test of PCB contaminated porous material according to the methodology outlined in Schedule "C" attached to this Certificate.

If the Company decides not to test those, they should be treated as PCB waste.

(d) The Company shall ensure that the waste oils to be processed are analysed by an accredited Ontario laboratory for their PCB content or assume that the waste oil is PCB waste.

Testing for PCB Waste Packing Operations

30. The Company shall ensure that the waste oil to be processed are analysed by an accredited Ontario laboratory for their PCB content.

Standards for Analyzing PCB Concentrations and Testing Frequency

31. To analyse total PCB concentration in soil and solid waste, the Ministry of the Environment, method E3153A entitled Ministry of the Environment; 1998 - The Determination of Polychlorinated Biphenyls (PCB) in Soil and Solid Industrial Waste by Gas Chromatography - Electron Capture Detection (GC-ECD) (PSAPCB - E3153A), Laboratory Services Branch, Etobicoke, Ontario, shall be used.

32. To analyse PCB concentration in oil or liquid, Ministry of the Environment, Method E3145A entitled Ministry of the Environment; 1998 - The Determination of Polychlorinated Biphenyls (PCB) in Liquid Industrial Wastes by Gas Chromatography - Electron Capture Detection (GC-ECD) (POACPCB - E3145A), Laboratory Services Branch, Etobicoke, Ontario, shall be used.

33. Leachate analyses shall follow the Toxicity Characteristic Leaching Procedure, Method 1311 that appears in the United States Environmental Protection Agency Publication SW-846 entitled "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", as amended from time to time, or an equivalent test method approved by the Director, as described under the definition of "leachate toxic waste" in Section 1 - Definitions, *Ontario Regulation 347*.

34. For thirty (30) or more PCB contaminated solid waste samples that have been analysed for total PCB, and analysis show PCB concentration less than 50 mg/Kg, the Company shall carry out leachate testing on only ten percent (10%) of the samples.

35. The samples to be leachate tested, should have a total PCB concentration below 50 mg/Kg and should be selected from those with a PCB concentration nearest 50 mg/Kg.

36. PCB contaminated waste that has been tested in accordance with Condition 43, using the leachate analysis method described under Condition 41, and which has a test result of less than 0.3 mg/l PCB concentration, is not considered PCB waste or hazardous waste.

37. If any of the leachate tests shows PCB concentration exceeding 0.3 mg/l, a more comprehensive leachate testing program should be developed in consultation with MOE and shall be approved by the Director.

Sampling and Disposal Protocol for PCB Contaminated Materials

38. The Company shall test PCB contaminated materials listed in "Schedule F" of this Certificate, following the sampling and disposal protocols described in "Schedule F" of this Certificate.

Decontamination, Sampling and Disposal Protocol for PCB Contaminated Wastewater

39. The Company shall decontaminate wastewater contaminated with PCBs and dispose of contaminated wastewater following this operating, sampling and disposal protocol:

- (a) The wastewater contaminated with PCBs shall be processed via carbon filters and micro-filters and stored in a holding tank;
- (b) Two 1/4" diameter columns of wastewater, from the full depth of the wastewater, shall be taken from either end of the holding tank;
- (c) The two (2) samples of the wastewater shall be sent to an accredited Ontario laboratory for testing of PCB content;
- (d) If the PCB content in the processed wastewater is above five (5) ppb, an additional carbon drum filter shall be installed and the wastewater shall be pumped through it and re-sampled;
- (e) If the PCB content in the wastewater is less than five (5) ppb, the Company, on behalf of the owner of the Site, shall apply to the local municipality having jurisdictional authority, to obtain approval to release the wastewater into a sanitary sewer; and
- (f) The wastewater to be released into the sanitary sewer shall comply with the "Model Sewer Use By-Law", August 1998.

Processing and Disposal Protocol for Oily Wastewater

40. The Company shall process oily wastewater, which may form as an emulsion of oil in water, at phase separation between oil and water layers, following this operating and developing procedure:

- (a) The oily water shall be placed into open top drums.
- (b) The lid shall be placed on the open top of the drum and the drum heater shall be applied to raise the oily water temperature to 30 degrees C.

- (c) The separated oil which floats on top of the wastewater in the drum shall be separated into a drum.
- (d) The separated oil shall be processed by a contractor that has approval for destruction of PCBs in oil. The decontaminated oil shall be sent to an approved liquid industrial waste processing facility. The Company may choose to send the separated oil directly to an approved final disposal site.
- (e) The separated wastewater shall be treated via carbon filters with the rest of the wastewater, as described under Condition 47.
- (f) The Company is responsible for processing and disposal of the oily water.

41. The Company is responsible for cleaning up the wastewater holding tank. The cleaned tank shall be swab tested and if the test yields less than 10Fg/100cm² of PCBs it shall be relocated off site.

Reporting Requirements

42. (a) If the duration of the operation of the Mobile Unit at a specific Site is shorter than thirty (30) calendar days, then the Company shall prepare a report at the completion of the operation of the Mobile Unit.

(b) If the duration of the operation of the Mobile Unit at a specific Site exceeds thirty (30) calendar days, then the Company shall prepare a report at the end of each thirty (30) day-operating period and at the completion of the operation at a specific Site.

(c) The report shall be submitted to the District Manager within thirty (30) calendar days from the end of each reporting period.

(d) The report shall include, but not be limited to the following information:

i. a summary of the notification requirements listed under Condition 14;

(e) The following additional information shall be included for Transformer Draining, Disassembly & Recycling Operations only:

- i. amount of waste which was processed by the Mobile Unit while located at the generator's Site;
- ii. description of waste which was processed;
- iii. total amount of PCB wastes, including PCB contaminated oil, wood, paper sorbent pads, metal components, askarel and any other porous materials generated by the operation of the Mobile Unit while located at the generator's Site;
- iv. total amount of non-PCB wastes, generated by the operation of the Mobile Unit while located at the generator's Site;
- v. dates and hours of operation of the Mobile Unit, including the actual commencement and completion date;
- vi. handling, storage and disposal procedures utilized for all non-PCB wastes generated by the operation of the Mobile Unit;
- vii. handling and storage procedures utilized for all PCB wastes, including PCB contaminated oil, askarel, metal components, wood, paper and any other porous materials from transformers, generated by the operation of the Mobile Unit;
- viii. destination of PCBs wastes;
- ix. destination of non-PCB wastes; and
- x. results of the testing required by this Certificate.

(f) The following additional information shall be included for PCB Waste Packing Operations only:

- i. actual amount of PCB waste which was processed by the Mobile Unit;
- ii. final destination of processed PCB waste;
- iii. handling and storage procedures utilized for processed PCB waste;
- iv. dates and hours of operation of the Mobile Unit, including the actual commencement and completion dates;
- v. records of upsets or emergency situation that occurred during the operation of the Mobile Unit;
- vi. details of storage for any processed PCB waste that is not intended for shipment.

Spill Reporting

43. The Company shall promptly take all necessary steps to contain and clean up any spills which result from the operation of the Site. All spills and upsets and fires shall be immediately reported to the Ministry's Spills Action Centre at **1-800-268-6060** and shall be recorded in a written log or an electronic file format, as to the nature of the spill or upset, and the action taken for clean-up, correction and prevention of future occurrences.

Contingency Plan

44. For each Site, the Company shall have in place a Spill Contingency and Emergency Response Plan prior to commencing operations at the Site. The Plan shall include, but is not necessarily limited to:

- (a) emergency response procedures to be undertaken in the event of a spill or process upset, including specific clean up methods for each individual waste;
- (b) a list of contingency equipment and spill clean up materials, including names and telephone numbers of waste management companies available for emergency response;
- (c) maintenance and inspection procedures required to keep the equipment and materials for spills and emergency situations in operating condition;
- (d) a notification protocol with names and telephone numbers of persons to be contacted, including Company personnel, the Ministry of Environment District Office and Spills Action Centre, the local Fire Department, the local Municipality, the local Medical Officer of Health, and the Ministry of Labour.

45. A copy of the Spill Contingency and Emergency Response Plan shall be kept on the Site at all times, in a central location available to all staff, and a copy shall be submitted to the Director, the local Municipality and the Fire Department.

- (a) The Company shall ensure that the contingency equipment and materials outlined in the Spill Contingency and Emergency Response Plan are immediately available on the Site at all times, in a good state of repair, and fully operational; and,
- (b) The Company shall ensure that all operating personnel are fully trained in their use, and in the procedures to be employed in the event of an emergency.

Contingency Measures for Transformer Draining/Disassembly Operations

46. (a) The location chosen for the operation of the Mobile Unit shall be entirely paved or covered with a synthetic impermeable plastic ground cover.

(b) The Mobile Unit shall be operated within a containment system to prevent the escape of any spilled material.

(c) The Company shall size the containment system so that it can contain the amount of liquid equivalent to the holding capacity of the Mobile Unit and of any liquid storage tanks, if applicable.

47. The Company shall cover any open drains to prevent spilled material from entering any sewer system.

Staff Training

48. (a) All operators of the Mobile Unit shall be trained with respect to the following areas:

- i. terms, conditions and operating requirements of this Certificate;
- ii. operation and management of the Mobile Unit, including contents of the Operation and Maintenance Manual required under Condition 60;
- iii. any environmental concerns pertaining to the wastes to be processed;
- iv. occupational health and safety concerns pertaining to the wastes to be processed;
- v. relevant waste management legislation, regulations and *the EPA*;

- vi. operation of equipment and procedures to be followed in the event of an emergency situation;
- vii. contents of the Contingency Plan and procedures, as required under Conditions 53 to 56;
- viii. Equipment and Facility Inspection Procedures, as required under Condition 58;
- ix. Complaint Response Procedures, as required under Condition 59;
- x. recognition of the Ballast Metal Components which need re-processing due to contamination with PCBs above the Clean-up Criteria.

(b) The Company shall maintain a written record at the Site, which may be in the form of a log-book, which includes:

- i. date of training;
- ii. name and signature of person who has been trained; and
- iii. description of the training provided.

Equipment and Facility Inspection

49. The Company shall conduct regular inspections of the equipment and facilities, including materials and equipment used for spills and emergencies, as required under Conditions 53 to 56, to ensure that all equipment and facilities at the Site are maintained in good working order at all times. Any deficiencies detected during these regular inspections shall be promptly corrected. A written record shall be maintained at the Site, which includes the following:

- (a) name and signature of trained personnel conducting the inspection;
- (b) date and time of the inspection;
- (c) list of equipment inspected and all deficiencies observed;
- (d) a detailed description of the maintenance activity;
- (e) date and time of maintenance activity; and
- (f) recommendations for remedial action and actions undertaken.

Complaint Response Procedure

50. If at any time, the Company receives complaints regarding the operation of the Site, the Company shall respond to these complaints according to the following procedure:

- (a) The Company shall record each complaint on a formal complaint form entered in a sequentially numbered log book. The information recorded shall include the nature of the complaint, the name, address and the telephone number of the complainant and the time and date of the complaint;
- (b) The Company, upon notification of the complaint shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint and forward a formal reply to the complainant; and
- (c) The Company shall retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the re-occurrence of similar incidents.

Operation and Maintenance Manual

51. The Company shall:

- (a) Continue to maintain and update an Operations and Maintenance Manual outlining the routine operating procedures, maintenance programs and inspection procedures required to keep the Mobile Unit in good operating condition, in

accordance with good engineering practices;

(b) Incorporate into the Operations and Maintenance Manual, the plans and specifications outlined in Schedule "B" attached to this Certificate, except when specified otherwise by the conditions of this Certificate;

(c) Up-date the Operations and Maintenance Manual as required to maintain it in keeping with good engineering practices; and

(d) Implement the recommendations of the Operations and Maintenance Manual.

Financial Assurance

52. (a) The Company shall ensure that financial assurance in the amount of \$20,000.00 (the amount required for one (1) unit), is posted with the Director at all times that the Mobile Unit is in operation or is located at a Site where the operation is to take place.

(b) Financial assurance may be in one of the following forms:

- i. cash; or
- ii. letter of credit; or
- iii. bond; or
- iv. other form;

all satisfactory to the Director.

(c) This Certificate number A290022 shall be included on any correspondence related to the financial assurance that is to be submitted to the Director.

(d) In the event that the financial assurance is scheduled to expire or notice is received that it will not be renewed and a replacement in a form satisfactory to the Director is not received at least sixty (60) calendar days before the expiry or the renewal date, the Company shall replace it with a cash deposit.

(e) The financial assurance may be used for any expenses incurred by Her Majesty the Queen in Right of Ontario, including cash deposits made under this condition or payment under Part XII of the *EPA*, related to any waste management activity of the Company or its successors and assignees.

(f) Financial assurance shall be considered acceptable for the purpose of operation of the Mobile Unit, once the Director issues written approval of the proposed financial assurance.

(g) The Company shall only operated the number of units for which adequate financial assurance has been provided.

53. (a) The Company is not required to test decontaminated metal components from PCB contaminated electrical cables and potheads before they leave the Site provided:

- i. the PCB contaminated electrical cables have been tested and found to contain a PCB concentration less than 500 ppm; and
- ii. the decontaminated metal components are shipped to a smelter facility approved to accept metals contaminated with PCBs at a concentration less than 500 ppm.

(b) The Company shall ensure that any decontaminated metal components which are not tested shall be managed as PCB waste.

Mobile Unit Storage Location

54. The mobile unit shall be stored at 4 Melanie Drive, Unit #23, Brampton, Ontario until such a time that the Green-Port Environmental Managers Ltd. Facility at 64 Todd Road, Halton Hills, Ontario is operational.

(a) The Company shall inform the Regional Director in writing that the mobile unit ceases to be stored at 4 Melanie Drive, Unit #23, Brampton, Ontario within 30 days of the relocation.

SCHEDULE "A"

This Schedule "A" forms part of this Provisional Certificate of Approval A290022.

UNIT #	MOBILE UNIT COMPONENTS	STORAGE
1	<ul style="list-style-type: none"> - one (1) fork lift, used to handle drums with PCB waste; - two (2) positive displacement gear pumps, driven by electric motors; - one (1) epoxy-coated spill tray, 1.5m X 3.0m X 0.15m; - one (1) epoxy-coated spill tray, 1.5m X 2.1m X 0.15m; - one (1) epoxy-coated spill tray, 3.0m X 3.0m X 0.15m; - one (1) epoxy-coated spill tray, 0.9m X 0.9m X 0.15m; - one (1) power wash sprayer 	1

SCHEDULE "B"

This Schedule "B" forms part of this Provisional Certificate of Approval A290022.

Information relied upon in the issuance of this Certificate of Approval:

1. Application for a Certificate of Approval for a Waste Disposal Site (Processing) submitted by Green-Port Environmental Managers Ltd., signed by Mr. Peter Wallace, P. Eng., and dated April 17, 1995.

2. Design and Operations Manual including the following information:

- a. procedures.
- b. system processing and storage capacity.
- c. air emission and air monitoring controls.
- d. worker exposure.
- e. days and hours of operations anticipated.
- f. record keeping for waste classification rates/volumes of waste processed for storage and recycling and availability of records.
- g. contingency plan for fire or spills.
- h. project specific Health and Safety Plan "Safety First" policy:
 - i. procedures for entering Mobile Unit.
 - ii. emergency response in case of fire, hazardous spill or safety accident.
 - iii. safety talks and emergency first aid, eye wash station.
 - iv list of process parameters to be monitored including sample data.
 - v procedures after completed operation.
 - vi notification Site preparation and planning details.
 - vii Drawings and Flowchart (GP-1,2 and 3 of 3, dated April 7, 1995).
 - viii plan view and elevation view.
 - ix detailed QA/QC sampling and analysis for monitoring waste and recycled products including frequency (Appendix "A").
 - x area to be served by Mobile Unit and number of Mobile Units.
 - xi physical location for storage of Mobile Unit when not in use.

CONTENT COPY OF ORIGINAL

3. Articles of Incorporation.
4. Letter dated May 31, 1995 from Mr. Peter Wallace, P. Eng., Green-Port Environmental Managers Ltd. to Mr. V. Petranovic, P. Eng., Ministry of Environment and Energy providing additional technical and operating information.
5. Letter dated June 29, 1995 from Mr. Peter Wallace, P. Eng., Green-Port Environmental Managers Ltd. to Mr. V. Petranovic, P. Eng., Ministry of Environment and Energy requesting approval for packaging of PCB waste.
6. Letter dated July 7, 1995 from Mr. Peter Wallace, P. Eng., Green-Port Environmental Managers Ltd. to Mr. V. Petranovic, P. Eng., Ministry of Environment and Energy providing list of PCB waste intended for packaging and shipment to Swan Hills, Alberta.
7. Letter dated October 5, 1995 addressed to Mr. A. Dominski, P.Eng., Ministry of Environment and Energy from Mr. Peter Wallace, P. Eng., Green-Port Environmental Managers Ltd. requesting addition of second Mobile Unit and inclusion of PCB contaminated paints, solvents and sludges into PCB waste that the Mobile Units will process.
8. Letter dated February 7, 1996 addressed to Mr. A. Dominski, P. Eng, Ministry of the Environment and Energy, from Mr. Peter Wallace, P. Eng., Green-Port Environmental Managers Ltd. requesting that the reference to "Swan Hills, Alberta" as the only disposal location be replaced with a general reference to a "final disposal location".
9. Letter dated November 4, 1996, requesting that technology referred to in the Provisional Certificate of Approval A290022 be allowed to be transferred from the mobile trailer to filed locations for the duration of any ballast processing project.
10. Letter dated November 14, 1996, from Mr. Peter Wallace, P. Eng., Green-Port Environmental Managers to Mr. A. Dominski, P. Eng., Supervisor Waste Sites and Systems Approvals, Ministry of the Environment and Energy, Approvals Branch, providing technical information on fixed locations.
11. Letter dated May 13, 1997 from Mr Peter Wallace, P. Eng., Green-Port Environmental Managers to Mr. A. Dominski, P. Eng., Supervisor Waste Sites and Systems Approvals, Ministry of the Environment and Energy, Approvals Branch, informing of the retiring of the second Mobile Unit and requesting the return of the letter of credit.
12. Letter dated October 1, 1997 from Mr Peter Wallace, P. Eng., Green-Port Environmental Managers to Mr. A. Dominski, P. Eng., Supervisor Waste Sites and Systems Approvals, Ministry of the Environment and Energy, Approvals Branch, requesting approval to process and recycle non-PCB contaminated transformers.
13. Letter dated October 29, 1997 from Mr Peter Wallace, P. Eng., Green-Port Environmental Managers to Mr. A. Dominski, P. Eng., Supervisor Waste Sites and Systems Approvals, Ministry of the Environment and Energy, Approvals Branch, requesting approval to operated the unit on a two-shift per day basis.
14. Letter dated June 28, 1997 from Mr Peter Wallace, P. Eng., Green-Port Environmental Managers to Mr. A. Dominski, P. Eng., Supervisor Waste Sites and Systems Approvals, Ministry of the Environment and Energy, Approvals Branch, requesting approval to decontaminate PCB contaminated electrical cables and potheads, and have decontaminated metals recycled.
15. Letter dated October 2, 1997 from Mr Peter Wallace, P. Eng., Green-Port Environmental Managers to Mr. A. Dominski, P. Eng., Supervisor Waste Sites and Systems Approvals, Ministry of the Environment and Energy, Approvals Branch, providing additional information on the unit operation.
16. Letter dated February 18, 1998 from Mr Peter Wallace, P. Eng., Green-Port Environmental Managers to Mr. A. Dominski, P. Eng., Supervisor Waste Sites and Systems Approvals, Ministry of the Environment and Energy, Approvals Branch, providing information on solubility of PCB in diesel oil.
17. Letter dated March 12, 1998, from Mr. Peter Wallace, P. Eng. Green-Port Environmental Manager Ltd. to Mr. A. Dominski, P. Eng., Manager, Waste Section, Ministry of the Environment, Approvals Branch, requesting approval of the sampling protocol for PCB contaminated ballast potting tar.

CONTENT COPY OF ORIGINAL

18. Letter dated May 12, 1998 from Mr. Peter Wallace, P.Eng. Green- Port Environmental Managers Ltd. to Mr. A. Dominski, P.Eng., Manager, Waste Section, Approvals Branch, Ministry of the Environment, submitting a proposed sampling and testing protocol for drums of soil, sand, gravel, asphalt, concrete, tyvek suits, gloves, rags, filters, wood and PCB contaminated cables.
19. Letter dated May 28, 1998 from Mr. Peter Wallace, P.Eng., Green- Port Environmental Managers Ltd. to Mr. A. Dominski, P.Eng., Manager, Waste Section, Approvals Branch, Ministry of the Environment, submitting a revised proposed sampling and testing protocol for drums of soil, sand, gravel, asphalt, concrete, tyvek suits, gloves, rags, filters, wood and PCB contaminated cables.
20. Letter dated August 24, 1998, from Mr. Peter Wallace, P.Eng., Green-Port Environmental Managers Ltd., to Mr. A. Dominski, P.Eng., Manager, Waste Section, Approvals Branch, Ministry of the Environment, submitting a proposed processing, sampling, testing and disposal method for PCB contaminated wastewater and PCB contaminated carbon filters.
21. Fax dated November 30, 1998, from Mr. Peter Wallace, V.P. Marketing, Green-Port Environmental Managers Ltd., to Mr. V. Petranovic, P.Eng., Senior Engineer, Waste Section, Environmental Assessment and Approvals Branch, Ministry of the Environment, reporting on results of tests on PCB cables at London Hydro. The tests were carried out by Agra Earth & Environmental and Fine Analysis Laboratories Ltd.
22. Letter dated February 1, 1999 from Mr. Peter Wallace, P.Eng., Green-Port Environmental Managers Ltd., to Mr. A. Dominski, P.Eng., Manager, Waste Section, Environmental Assessment and Approvals Branch, Ministry of the Environment, requesting reduction of number of leachate tests for PCB solids.
23. Application for Approval of a Waste Disposal Site (to drain/decontaminate PCB transformers) submitted by Green-Port Environmental Managers Ltd., signed by Mr. Peter Wallace, P.Eng., and dated August 22, 1996.
24. Letter dated August 22, 1996 from Mr. Peter Wallace, P.Eng., Vice- President, Marketing, Green-Port Environmental Managers Ltd. to Mr. A. Dominski, P. Eng., Supervisor, Waste Sites and Systems Approvals, Ministry of Environment and Energy, Approvals Branch, providing Protocol for Draining PCB Transformers.
- 25 Letter dated October 9, 1996 from Mr. Peter Wallace, P.Eng., Green-Port Environmental Managers to Mr. A. Dominski, P.Eng., Supervisor, Waste Sites and Systems Approvals, Ministry of Environment and Energy, Approvals Branch, providing estimate of PCB contaminated oil quantity that may spill during the operation.
26. Letter dated November 11, 1997 from M. Peter Wallace, P.Eng., Vice President Marketing, Green-Port Environmental Managers Ltd. to Mr. A. Dominski, P.Eng., Supervisor, Waste Sites and Systems Approvals, Ministry of Environment and Energy, applying for amendment of the Certificate to allow for decontamination of PCB contaminated transformers, with PCB in oil content of less than 15,000 ppm.
27. Letter dated February 19, 1998 from M. Peter Wallace, P.Eng., Vice President Marketing, Green-Port Environmental Managers Ltd. to Mr. A. Dominski, P.Eng., Supervisor, Waste Sites and Systems Approvals, Ministry of Environment and Energy, providing additional operating information for decontamination of the transformer.
28. Letter, dated December 2000, from Peter Wallace, Green-Port Environmental Managers Ltd., to A.Dominski, MOE, querying procedures regarding retiring a Mobile Facility and return of Financial Assurance because Ballast Disassembly/Recycling operations are no longer economically viable.
29. Facsimile, transmitted February 14, 2001, from Peter Wallace, Green-Port Environmental Managers Ltd., to A.Dominski, MOE, requesting suspension of Mobile Unit A290036(Site)/A841552(System), and inclusion of PCB Transformer draining operation for Mobile Facility A290022(Site)/841480(System).
30. Letter, dated October 24, 2001, from S.Holloway, MOE, to Peter Wallace confirming teleconference October 2, 2001 between Mr. Wallace and D.Guimond, MOE, and S.Holloway, MOE, during which Mr. Wallace clarified that PCB Transformer Draining/Disassembly/Recycling operations and equipment of Mobile Facility A290036/A841552 were to be transferred to Mobile Facility A290022(Site)/A841480(System).
31. Facsimile, transmitted November 1, 2001, from Peter Wallace, Green-Port Environmental Managers Ltd. to

CONTENT COPY OF ORIGINAL

S.Holloway, MOE, confirming that S.Holloway's understanding Company's intentions, as described in Item 25 of this Schedule "B" is correct, and also includes deletion of all Ballast Disassembly/Recycling operations.

32. Facsimile, transmitted November 28, 2001, from Peter Wallace, Green-Port Environmental Managers Ltd. to S. Holloway, MOE, requesting re-inclusion of Ballast Disassembly/Recycling operations for Mobile Facility A2900(Site)/A841480(System).

33. Letter dated January 21, 2002 from Peter Wallace, P. Eng., Green-Port Environmental Managers Ltd., to Ian Parrott, MOE, describing the requested amendment.

SCHEDULE "C"

This Schedule "D" forms part of this Provisional Certificate of Approval A290022.

The following method shall be utilized for the analysis of PCBs from the extract:

U.S. Environment Protection Act Method 8080, SW-846,
3rd Edition,
Dated November, 1986

including modifications submitted in ENTECH Analytical Method Summary, PCBs in Ballast Components, April 10, 1995.

SCHEDULE "D"

This Schedule "F" forms part of this Provisional Certificate of Approval A290022.

1. The Company shall test PCB contaminated soil, sand, gravel, asphalt, concrete and wood, stored in drums and dispose of these wastes following this sampling and disposal protocol:

1.1 The contents of a drum shall be transferred onto a spill tray.

1.2 For drums containing soil, sand and gravel, aliquots from the tray shall be collected at locations representing top, middle and bottom of the drum. These three (3) aliquots shall be well mixed together to form one composite sample for analyses.

1.3 For drums containing asphalt and concrete, three (3) to five (5) aliquots from the tray shall be collected by taking surface chips from stained concrete and asphalt. These aliquots shall be well mixed together to form one (1) composite sample for analyses.

1.4 For drums with wood, three (3) to five (5) aliquots shall be collected by taking surface chips from stained wood. These aliquots shall be well mixed together to form one (1) composite sample.

1.5 The contents of the drum on the spill tray shall then placed back into a receiving drum, which shall be numbered and catalogued to correspond to the number of the composite sample.

1.6 Each composite sample shall be divided into two portions. One portion shall be analysed for PCB concentration and another portion shall be analysed for PCB leachate concentration.

1.7 The samples shall be sent to an independent accredited Ontario laboratory for analyses for PCB concentration and PCB leachate concentration.

1.8 The content of drums, where the composite samples analyses exceed PCB concentration of 50 mg/Kg are PCB waste, as per *Ontario Regulation 362*, and shall be managed as PCB waste.

1.9 If the composite samples analyses exceed PCB concentration of 50 mg/Kg, a PCB leachate test is not required.

1.10 The content of drums, where analyses of the composite samples exceed PCB leachate test of 0.3 mg/L, as per

CONTENT COPY OF ORIGINAL

Ontario Regulation 347, Schedule 4, is hazardous waste and shall be managed as hazardous waste.

1.11 The content of drums where analyses of composite samples show PCB concentration of less than 50 mg/Kg and PCB leachate test less than 0.3 mg/L is not PCB waste or hazardous waste, and shall be disposed of as non-hazardous waste.

2. The Company shall test PCB contaminated suits, gloves, rags and filters, stored in drums and dispose of these wastes following this sampling and disposal protocol:

2.1 The Company shall take two (2) sets of representative samples from each drum of:

- a. tyvek suits: one (1) every twenty (20) suits - two (2) 10 cm² samples
- b. gloves: one (1) every twenty (20) pairs - two (2) samples cut out of finger tips
- c. rags: one (1) 10 cm² sample from every two (2) rags
- d. breathing filters: one (1) every twenty (20) filters

2.2 The above samples shall be taken from the most visibly contaminated items.

2.3 Of those two composite samples, one shall be analysed for PCB concentration and the other for PCB leachate concentration.

2.4 The composite samples shall be sent to an independent accredited Ontario laboratory for analyses for PCB concentration and PCB leachate concentration.

2.5 The content of the drums where analyses of composite samples exceed PCB concentration of 50 mg/Kg is PCB waste, as per *Ontario Regulation 362*, and shall be managed as PCB waste.

2.6 If composite samples analyses exceed PCB concentration of 50 mg/Kg of PCB, PCB leachate test is not required.

2.7 The content of drums, where analyses of composite samples exceed PCB leachate test of 0.3 mg/L, is hazardous waste, as per *Ontario Regulation 347*, and shall be managed as a hazardous waste.

2.8 The content of drums, where analyses of composite show PCB concentration less than 50 mg/Kg and PCB leachate test less than 0.3 mg/L, is not PCB waste and not hazardous waste, and shall be managed as non-hazardous waste.

3. The Company shall test PCB contaminated electrical cables stored in drums and dispose of these, following this sampling and disposal protocol:

3.1 If there is any free liquid or sludge at the bottom of the drum, it shall be sampled and tested for total PCB concentration. If the test results yield PCB concentration above 50 mg/Kg, the content of the drum is classified as PCB waste, and shall be managed as PCB waste.

3.2 If the test results yield PCB concentration less than 50 mg/Kg or if there is no free liquid in the drum, five (5) aliquots shall be collected from randomly selected sections of cable from each drum. The aliquots consist of short sections (1 to 5 cm) of the randomly selected cables.

3.3 The five (5) aliquots are well mixed to form one composite sample for analyses. The composite sample is separated into two portions. One shall be analysed for PCB concentration and the other for PCB leachate concentration.

3.4 The composite samples shall be analysed by an independent accredited Ontario laboratory, using analytical methods approved or acceptable by the Ministry.

CONTENT COPY OF ORIGINAL

3.5 If the composite samples analyses exceed PCB concentration of 50 mg/Kg, the cables are PCB waste, as per *Ontario Regulation 362* and shall be managed as PCB waste, or metal parts shall be separated from non-metal parts, decontaminated and recycled, while separated non-metal parts shall be disposed as PCB waste.

3.6 If the other portion of the composite sample analysed for PCB leachate concentration results in PCB concentration of more than 0.3 mg/L, the waste is classified as hazardous waste and shall be managed as hazardous waste, or metal parts shall be separated from non-metal parts, decontaminated and recycled, while separated non-metal parts shall be disposed as hazardous waste.

4. The Company shall sample, test and dispose of PCB contaminated carbon filters following only this sampling and disposal protocol:

4.1 Samples from the top, middle and bottom of the carbon filter drum shall be collected. These three (3) aliquots shall be mixed together to form one composite sample for analyses.

4.2 The composite sample is divided into two portions. One portion shall be analysed for PCB concentration and another portion shall be analysed for PCB leachate concentration.

4.3 The samples shall be sent to an independent accredited Ontario laboratory for analyses for PCB concentration and PCB leachate concentration.

4.4 The contents of the drums, where the composite samples analyses exceed PCB concentrations of 50 mg/Kg of PCB waste, as per *Ontario Regulation 362*, shall be managed as PCB waste.

4.5 If the composite samples analyses exceed PCB concentrations of 50 mg/Kg, a PCB leachate test is not required.

4.6 The content of the drums, where analyses of the composite samples exceed the PCB leachate test of 0.3 mg/L, as per *Ontario Regulation 347*, Schedule 4, are hazardous waste and shall be managed as hazardous waste.

4.7 The content of the drums where analyses of composite samples show PCB concentrations of less than 50 mg/Kg and the PCB leachate test is less than 0.3 mg/L is not PCB waste or hazardous waste, and shall be disposed of as non-hazardous waste.

SCHEDULE "E"

This Schedule "G" forms part of this Provisional Certificate of Approval for A290022.

Wipe Test Protocol

1. Purpose:

This wet wipe sampling protocol is recommended for the verification of PCB contamination concentrations on metal which are to be sent to metal recyclers for subsequent smelting. In particular, this protocol deals with the sampling of electrical transformers including the location of samples and the number of samples per location.

2. Pre-Sampling Preparation:

(1) In a pre-cleaned 250 mL glass jar, one 2 inch by 2 inch gauze pad. The jar is sealed with a lid lined with hexane cleaned aluminum foil or teflon.

(2) Disposable templates are prepared such that the inner edges represent a minimum 100 cm² surface area. The template can be any shape appropriate for the surface being tested (e.g. square, rectangular, etc.) but should be at least 100 cm². Smaller surface areas can be sampled if circumstances dictate; however, such an approach presents a risk of not detecting PCBs due to the small samples and the limitation of the analytical equipment.

Templates are normally made of heavy paper and cardboard.

3. Required Sampling Equipment:

- i Prepared sampling jars containing gauze pad soaking in hexane.
- ii Disposable templates.
- iii Latex gloves.
- iv Markers and labels.
- v Container for disposing of used templates and gloves.
- vi Chain of custody sheets.
- vii Metal forceps.
- viii Solvent bottle of pesticide grade hexane.

4. Sampling Methodology:

- (1) Using a disposable template and wearing latex gloves, mark with a piece of chalk a 100 cm² area on the metal surface to be tested. Dispose of the template and gloves. Alternatively, the template may be taped to the surface.
- (2) Open one sample jar. Wearing a clean pair of latex gloves, remove the gauze pad from the jar. Add 4 or 5 mL of hexane to the gauze pad quantitatively from a pump burette on the solvent bottle.
- (3) Starting in one corner, wipe the pre-marked area with the gauze pad in rows ensuring the entire area is covered. Use a uniform and steady pressure.
- (4) Open the gauze pad and refold to expose fresh surfaces.
- (5) Wipe the marked area in rows which are perpendicular to the previous ones. Ensure the entire area is swabbed equally. Use a uniform and steady pressure.
- (6) Place the gauze pad back into the jar. Close lid and label sample appropriately.
- (7) Dispose of gloves.

5. A chain of custody is completed prior to removing the samples for analysis.

6. Variations on Sampling Methodology:

In the case of composite samples, the gauze pads which comprise the composite may be placed after wiping the appropriate area, in the same sampling jar which is then labelled as a composite sample. For example, if four areas are to be composited, gauze pads from four prepared sampling jars would be used, one for each area. Rather than returning each gauze pad to the jar it originated from, the gauze pads would all be placed into one jar after the wipe is performed.

To sample wires, a length representing a 100 cm² area is marked and wiped by drawing the wire back and forth 8 times between a gauze pad which completely surrounds the wire. The gauze pad is opened to expose a fresh surface and the wiping is repeated.

7. Sampling Locations:

(1) The sampling locations for each transformer tank shall be as follows:

- (a) Composite 1 consists of:
 - i. flat surface adjacent to or below a fin port
 - ii. side wall
 - iii. weld joint/seam
 - iv. bottom tank surface

(b) Composite 2 consists of:

- i. interior of fin
- ii. side wall or bottom surface
- iii. weld joint/seam
- iv. side wall corner

(2) For the wires, two composite samples shall be submitted for each transformer decontaminated. Each composite shall consist of two randomly selected lengths of wire which represent a 100 cm².

(3) For the laminations, two composite samples shall be submitted for each transformer decontaminated. Each composite shall consist of two randomly selected 100 cm² areas.

8. For the bushings, one composite sample shall be submitted for each transformer decontaminated. The composite shall consist of two randomly selected 100 cm² areas. For each of 10 or fewer samples, one gauze and container blank should be submitted.

9. Analysis:

Analysis shall normally be by capillary GC-ECD using Aroclor standards for quantification. Alternative analytical methods include GC-ELCD or GC-MS.

SCHEDULE "F"

This Schedule "H" forms part of Provisional Certificate of Approval A290022.

1. The following method shall be utilized for the extraction of PCBs from decontaminated transformer metal components and wastes.

- US-EPA METHOD 3540B
- entitled: SOXHLET EXTRACTION
- Revision 2
- dated: November 1992

including all required accompanying methods, as referenced in Method 3540B.

2. The following method shall be utilized for the analysis for PCBs from the extract:

- US-EPA METHOD 8081
- Revision 0 dated: November 1992
- including all required accompanying methods, as referenced in Method 8081.

This Provisional Certificate of Approval revokes and replaces Certificate(s) of Approval No. A290022 issued on July 24, 1995, and all subsequent notices.

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

1. The reason for Conditions 1, 12, 14, 22 and 42 to ensure that the Site is operated in accordance with the application and supporting documentation submitted by the Company, and not in a manner which the Director has not been asked to consider.

2. The reason for Conditions 2, 3, 4, 5, 8, 9, 10, 11 and 13 is to clarify the legal rights and responsibilities of the Company.

3. The reason for Conditions 6 and 7 is to ensure that the appropriate Ministry staff have ready access to information and the operations of the Site which are approved under this Certificate. Condition 5 is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA, the OWRA, and the Pesticides Act, as amended from time to time.

4. *The reason for Conditions 15, 16, 17, 21, 23, 24, 25, 26, 27, 28, 44, 45, 46, 47 and 48 are to ensure that the site is operated in a manner which does not result in a nuisance or a hazard to the health and safety of the environment or people.*
5. *The reason for Conditions 30 to 41 is to ensure that sampling, testing and disposal procedures which are acceptable to the Ministry are followed.*
6. *The reason for Condition 43 is to ensure that staff notify the Ministry forthwith of any spills as required in Part X of the EPA so that appropriate spills response can be determined.*
7. *The reason for Conditions 46 and 51 is to ensure that staff are properly trained in the operation of the equipment used at the Site and emergency response procedures. This will minimize the possibility of spills occurring and will enable staff to deal promptly and effectively with any spills that do occur.*
8. *The reason for Condition 50 is to ensure that complaints are properly and quickly resolved, and that the complaints and follow-up actions have been documented.*
9. *The reason for Condition 52 is to ensure that sufficient funds are available to the Ministry to clean up the Site (as defined in the preamble of this Provisional Certificate of Approval A290022) in the event that the Company (which means Green-Port Environmental Managers Ltd., including its officers, employees, agents or contractors) is unable or unwilling to do so.*

This Provisional Certificate of Approval revokes and replaces Certificate(s) of Approval No. A290022 issued on January 9, 2002 and subsequent amendments.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Review 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 shall state:

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

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the waste disposal site is located;

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

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Director
Section 39, *Environmental Protection Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

CONTENT COPY OF ORIGINAL

The above noted waste disposal site is approved under Section 39 of the Environmental Protection Act.

DATED AT TORONTO this 29th day of January, 2008

Tesfaye Gebrezghi, P.Eng.
Director
Section 39, *Environmental Protection Act*

YI/
c: District Manager, MOE Halton-Peel
Peter Wallace, P.Eng., Green-Port Environmental Managers Ltd.