

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A042102

Issue Date: April 22, 2025

The Corporation of the City of London
300 Dufferin Ave
London, Ontario
N6A 4L9

Site Location: W12A Landfill Site

3502 Manning Drive,
London, County of Middlesex, ON
N6L 1K6

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act ,
R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:*

a 106.19 hectare (ha) landfilling area within a total site area of 191.56 ha for the receipt and management of the following wastes:

Solid non-hazardous waste generated from residential, commercial, institutional and industrial sectors;

Solid non-hazardous construction and demolition waste (including asbestos waste);

Solid non-hazardous sewage sludge ash;

Non-hazardous dewatered (solid) biosolids from municipal pollution control plants;

Other municipal non-hazardous waste: non-recyclable material from parks, grit from pollution control plants, street sweepings/road waste;

Non-hazardous Contaminated Soils or excess soil; and

Municipal Hazardous Special Waste (MHSW) or Household Hazardous Waste (HHW).

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

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

“Contaminated Soils” in the context of this Approval means soils which are non-hazardous and do not meet Table 3 chemical quality standards prescribed in “Soil, ground water and sediment standards for use under Part XV.1 of the Environmental Protection Act, dated April 15, 2011”.

"Design and Operations Report" means the Design and Operations Report containing information on the landfill design, technical specification, operations and monitoring in accordance with the O. Reg. 232/98 requirements, and in the context of this Approval is the Design and Operations Report which is included as Item 38 in Schedule "A" of this Approval ;

"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 local district office of the Ministry in which the Site is geographically located;

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

"excess soil" has the same meaning as in the O. Reg. 406/19, as amended;

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

"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;

"Municipal Hazardous or Special Waste (MHSW)" and also referred to as Household Hazardous Waste, with the acronym "HHW" as defined in O. Reg. 387/16, as amended;

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

"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 and includes its successors or assigns;

"Owner" means any person that is responsible for the establishment or operation of the site being approved by this Approval, and includes the City of London, its successors and assigns;

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

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

"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 PA or Section 4 of NMA or Section 8 of SDWA.

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

"Regulation 347" or "Reg. 347" means Regulation 347, R.R.O. 1990, made under the EPA, as amended;

"O. Reg. 406/09" means on-site and excess soil management made under the EPA, as amended from time to time;

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

"Regulation 232" or "Reg. 232" means Ontario Regulation 232/98 (Landfill Standards) made under the EPA, as amended from time to time;

"Site" means the entire waste disposal site, including the buffer lands located at 3502 Manning Drive in the City of London, County Of Middlesex, ON;

"Trained personnel" means knowledgeable in the following through instruction and/or practice:

- a. relevant waste management legislation, regulations and guidelines;
- b. major environmental concerns pertaining to the waste to be handled;
- c. occupational health and safety concerns pertaining to the processes and wastes to be handled;
- d. management procedures including the use and operation of equipment for the processes and wastes to be handled;
- e. emergency response procedures;
- f. specific written procedures for the control of nuisance conditions;
- g. specific written procedures for refusal of unacceptable waste loads; and
- h. the requirements of this Approval.

"Transfer Station" means the transfer station established on Site for the temporary storage and bulking of HHW waste.

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

TERMS AND CONDITIONS

1. GENERAL

Compliance

1. The Owner and Operator 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.

In Accordance

3. Except as otherwise provided by this Approval, the Site shall be designed, developed, built, operated and maintained in accordance with the documentation listed in the attached Schedule "A".

Interpretation

4. 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.

5. 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.

6. 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.

7. The conditions of this Approval are severable. If any condition of this Approval, or the application of any condition of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

Other Legal Obligations

8. The issuance of, and compliance with, 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 and Operator to furnish any further information related to compliance with this Approval.

Adverse Effect

9. The Owner and Operator shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.

10. Despite an Owner, Operator 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 to the natural environment or impairment of water quality.

Change of Owner

11. The Owner shall notify the Director, in writing, and forward a copy of the notification to the District Manager, within 30 days of the occurrence of any changes in the following information:

- a. the ownership of the Site;
- b. the Operator of the Site;
- c. the address of the Owner or Operator;
- d. the partners, where the Owner or Operator 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, shall be included in the notification;

12. 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 and sufficient financial assurance is deposited with the Ministry to ensure that these conditions will be carried out. In the event of any change in Ownership of the works, 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.

Inspections

13. 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 works are located, 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;
and
- e. 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.

Information and Record Retention

14. (a) Except as authorized in writing by the Director or otherwise stated within this Approval, all records required by this Approval shall be retained at the Municipal Offices for a minimum of two (2) years from their date of creation.

(b) The Owner shall retain all documentation listed in Schedule "A" for as long as this Approval is valid.

(c) All monthly summary reports are to be kept at the Site and/or the Owner's office until they are included in the Annual Report.

(d) The Owner shall retain employee training records as long as the employee is working at the Site.

(e) The Owner shall make all of the above documents available for inspection upon request of Ministry staff.

15. 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.

16. The Owner shall ensure that a copy of this Approval, in its entirety and including documentation listed in Schedule "A", are retained at the Site at all times.

17. Any information related to this Approval and contained in Ministry files may be made available to the public in accordance with the provisions of the *Freedom of Information and Protection of Privacy Act*, RSO 1990, CF-31.

Registration on Title - Certificate of Requirement

18. (1) Within 6 months of the date of the 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

(e) any supporting documents including a registerable description of the Site.

(2) Within 30 calendar days of receiving the Approval 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 and the District Manager, written verification that the Certificate of Requirement has been registered on title.

Certificate of Withdrawal of Requirement

19. If the Owner wants to withdraw the Certificate of Requirement for the Site, the Owner shall:

(a) submit to the Director, a completed Certificate of Withdrawal of Requirement; and its supporting documents, outlining the reasons for the Withdrawal of the Requirement.

(b) submit to the Director:

(i) a plan of survey of the area where waste was deposited sealed by an Ontario Land Surveyor and for the Site;

(ii) 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 of the Certificate of Withdrawal of Requirement,

(iii) the legal abstract of the property; and

(iv) completed Certificate of Withdrawal of Requirement containing a registerable description of the Site.

(c) within fifteen (15) calendar days of receiving a Certificate of Withdrawal of Requirement

authorized by the Director, the Owner may:

- (i) register the Certificate of Withdrawal of Requirement in the appropriate Land Registry Office on the title to the property; and
- (ii) submit to the Director and District Manager, written verification that the Certificate of Requirement has been registered on title.

Design and Operations Report

20. The Owner shall maintain an up-to-date Design and Operations Report for the Site, which shall contain at a minimum the information required by the Ministry's "Guide to applying for an Environmental Compliance Approval" as it applies to the Site.

21. The Design and Operations Report shall be:

- a. kept up-to-date at all times so that it accurately reflects the ongoing Site activities as approved under this Approval;
 - b. retained at the Site;
 - c. available for inspection by a Provincial Officer upon request; and
 - d. updated and submitted with all future ECA applications for the Site, including a revisions tracking log.
22. Changes to the Site's operations that do not require an amendment to this Approval under Section 27 of the EPA shall be recorded in a revisions tracking log in the Design and Operations Report and submitted to the District Manager for record keeping.

2. SITE OPERATIONS

1. Approval is hereby granted for the landfill expansion in accordance with the Design and Operations Report for the W12A Landfill Site, included as Item 38 in Schedule "A".

Hours of Operations

2. Waste shall only be accepted during the following time periods:

Monday to Saturday 7 a.m. to 5 p.m., and occasional 24 hrs per day, 7 days per week operation for the receipt of dewatered biosolids, as needed.

3. On-site equipment used for daily site preparation and closing activities may be operated one (1) hour before and one (1) hour after the hours of operation approved by this Approval.

4. With the prior written approval from the District Manager, the time periods may be extended to

accommodate seasonal or unusual quantities of waste.

Service Area

5. The Owner may receive waste generated within the boundaries of:

- City of London
- Elgin County
- Middlesex County
- Huron County
- Lambton County and
- Perth County

Waste Types and Waste Limits

6. The Owner may only accept the following categories of waste to be landfilled and processed Site:

- a. Solid non-hazardous waste generated from residential, commercial, institutional and industrial sectors;
- b. Solid non-hazardous construction and demolition waste (including asbestos waste);
- c. Non-hazardous sewage sludge ash;
- d. Non-hazardous dewatered (solid) biosolids from municipal pollution control plants;
- e. Other municipal non-hazardous waste: non-recyclable material from parks, grit from pollution control plants, street sweepings/road waste;
- f. Non-hazardous Contaminated Soils or excess soil; and
- g. Municipal Hazardous Special Waste (MHSW) or Household Hazardous Waste (HHW).

7. Dewatered sewage sludge shall be accepted and handled as per procedure outlined in Section 10.3.3 of Item 38 of Schedule "A".

8. Non-hazardous Contaminated Soils and/or excess soil can only be landfilled at the Site if they meet Section 22 of O. Reg. 406/19, as amended, requirements.

9. Excess soil may be used at the Site for the purposes outlined in Section 22(2) of O. Reg. 406/19, as amended. Excess soil used at the Site for the purposes outlined in Section 22(2) of O. Reg. 406/19 shall not be landfilled and shall be stored within the approved fill limit in case of non-hazardous Contaminated Soils or at appropriate locations within the buffer lands in case excess soil is not Contaminated Soils.

10. The Owner shall ensure that final landfill waste and cover contours do not exceed those shown on Drawing 06 and Drawing 07, respectively, in the Design and Operations Report included as Item 38 in Schedule "A".

Asbestos Waste

11. Any waste that is considered asbestos waste shall be handled in accordance with Section 17 of O. Reg. 347 as amended from time to time and in accordance with the procedure outlined in Appendix J – Asbestos Waste Handling and Disposal Procedure, of the Design and Operations Report included as Item 38 in Schedule "A".

12. A suitable sized excavation for the asbestos waste shall be made by the Owner in a location away from the active landfilling face.

13. All asbestos waste shall be inspected to ensure that the asbestos waste is properly bagged or contained and free from puncture, tears or leaks.

14. The asbestos waste shall be placed in the excavation to avoid damage to the containers and to prevent dust and spillage.

15. Upon completion of the unloading and deposition of the asbestos in the excavation, at least 1.25 metres of cover or waste material shall be placed over the asbestos.

16. All asbestos waste shall be deposited to a level no higher than 1.25 metres below the general elevation of the disposal area to ensure that daily cover material removal in the future does not encounter the asbestos waste.

Unacceptable Waste

17. The Owner shall ensure all incoming loads are inspected by a trained attendant to ensure only waste approved under this ECA are received at this Site.

a. If any incoming waste load is known to, or is discovered to, contain unapproved waste, that load shall not be accepted at the Site; and

b. If any unapproved waste is discovered on-Site, that waste shall be immediately disposed of in accordance with the EPA and Reg. 347.

Site Supervision and Security

18. No waste shall be received, landfilled or removed from the Site unless a site supervisor or attendant is present and supervises the operations during operating hours. The Site shall be closed when a site attendant is not present to supervise the landfilling operations.

19. The Site shall be operated and maintained in a safe and secure manner. During non-operating hours, the Site entrance and exit gates shall be locked to secure against access by unauthorized persons.

Signage

20. Signs shall be placed at the landfill Site entrance/exit indicating, at a minimum, the following:

- a. Name of the landfill
- b. Name of the Owner/Operator;
- c. ECA Number;
- d. Normal hours of operations;
- e. Contact telephone number at the City of London for registering complaints ;
- f. Unauthorized entry is prohibited; and
- g. A warning against dumping wastes outside the Site.

21. Signs shall be posted and maintained along internal access roads to control, at a minimum, the following:

- a. vehicle speeds,
- b. vehicle turning movements, and
- c. vehicular access to the working face and other designated areas of the Site.

Access Roads

22. The access roads and on-Site roads shall be provided and maintained so that vehicles hauling waste to and on the Site may travel readily on any operating day.

Burning of Waste

23. Burning of waste is not permitted at the site with the exception of ammunition and flares (collected in Explosive Storage Magazine) which will be conducted under the local police department's supervision.

Scavenging

24. The Owner shall ensure that there is no scavenging (as defined in Reg. 347) at the Site. Controlled removal of reusable material from the Site may only occur in a designated and supervised area on the Site.

Litter

25. The Owner shall operate a litter maintenance program, which will include the collection and proper disposal of any litter that is blown off-site or from those areas of the Site that are not being actively landfilled. The program shall be summarized in the Annual Report.

Waste Cover Requirements

26. Daily, interim and final cover material shall be applied as follows:

a. Daily Cover - By the end of each working day, the entire working face shall be compacted and covered with a minimum thickness of 150 mm of soil/alternative cover or an approved thickness of alternative cover material. Prior to placing waste at the start of the next operating day, the existing daily cover material shall be scarified or removed to ensure vertical hydraulic connection is maintained between layers of waste and to promote percolation of leachate downwards to the leachate collection system. Where weather conditions or operational problems prevent the daily application of cover material, the Owner shall immediately notify the District Manager.

b. Interim Cover - In areas where landfilling has been temporarily discontinued for 3 months or more, a minimum thickness of 300 mm of soil/alternative cover or an approved thickness of alternative cover material shall be placed.

c. Final Cover - Shall be applied progressively as areas of the landfill reach final waste elevations within the existing fill area. All areas of final cover shall be graded and vegetated as soon as practically possible. The final soil cap shall be regularly inspected and maintained following application and during the post-closure period. Without limiting the above, the Owner shall ensure the Site shall be inspected at least on a quarterly basis to ensure that there is positive drainage along the cap. If any inspection indicates that there is an area of ponding or zero slope, the Owner shall take all steps necessary to provide positive drainage and rehabilitate the final cap as soon as practically possible.

27. Where final contours have been reached, final cover material shall be applied as soon as possible. The cover material shall be at least 750 mm including 600 mm of soil cover and 150 mm of topsoil or other material approved by the Director that is suitable for establishment of vegetative cover, and as described in Section 14 of Item 38 of Schedule "A". These areas shall be seeded during the earliest spring or fall planting season to stabilize the surface against erosion.

28. The landfilling area shall be inspected monthly for erosion of the interim and final cover material. Appropriate corrective measures shall be undertaken by the Owner within 5 working days, weather permitting, after an erosion problem is identified.

Alternative Daily Cover Material

29. Alternative cover materials to soil may be used as daily and interim cover material at this landfill site, based on an application with supporting information for a trial use or permanent use (based on a successful trial use), submitted by the Owner to the Director, copied to the District Manager, and as approved by the Director. The alternative material shall be non-hazardous according to Reg. 347 and shall be expected to perform at least as well as soil in relation to the following functions:

a. Control of blowing litter, odours, dust, landfill gas, gulls, vectors, vermin and fires;

b. Provision for an aesthetic condition of the landfill during the active life of the Site;

c. Provision for vehicle access to the active tipping face; and

d. Compatibility with the design of the landfill site for groundwater protection, leachate management and landfill gas management.

30. Roofing shingles and construction and demolition fines may be used as an alternative daily cover material at this landfill Site. Roofing shingles shall not be used within 50 metres of the edge of each waste lift. Roofing shingles shall be stripped off or scarified from the working face prior to waste placement on the next operating day to ensure good hydraulic connection between successive lifts of waste.

Landfill Design and Operations - Phase 2 - Leachate Collection System

31. Approval is granted for the design and development of Phase 2 of the W12A Landfill Site, including installation of a full underdrain leachate collection system, commencing with Cell 6, all in accordance with Items 11 to 25 in Schedule "A".

32. The Owner shall ensure that record drawings for all constructed engineered facilities related to the landfill design and operations are available on the site or at office (City Hall) of the Owner for inspection.

33. During the operational life of the facilities, the base and slopes of the landfill site shall be inspected on a weekly basis for seepages. All seeps shall be intercepted/controlled. These inspections and any remedial action taken shall be included in the Annual Report.

Landfill Gas Management

34. In accordance with Application for Approval for a Waste Disposal Site dated June 25, 2009, and supporting documentation listed as Item # 30, Schedule "A", approval is granted for the expansion of the gas collection system.

Night Garbage Storage Facility

35. Approval is granted for the establishment and operation of a night garbage storage facility located at the south end of the W12A Landfill Site in accordance with Items 7 to 10 in Schedule "A" or in the future location in accordance with the Design and Operations Report which is included as Item 38 of this Approval..

36. The night garbage storage facility is approved to store no more than 40 tonnes of waste each night. The waste shall be removed from the night garbage storage facility to the tipping face of the landfill site for disposal no later than 10:00 a.m. of the same day.

37. The Owner/Operator shall take all reasonable steps to prevent off-site nuisance impacts from night garbage storage operations at the W12A Landfill Site and shall implement control measures for receipt of waste, litter, odour, dust, bird and non-bird vectors, fire and noise in accordance with Items 4 and 6 in Schedule "A" attached to this Notice.

38. The Owner/Operator shall take all reasonable steps to ensure that the night garbage storage facility and its surrounding area are inspected and maintained regularly and shall pick up any litter at and around the night garbage storage facility.

39. The Owner/Operator shall cover the waste at the night garbage storage facility with tarps each

night or enclose the night garbage storage facility in accordance with Item 6 in Schedule "A", if blowing litter cannot be put under control.

Placement of Explosive Storage Magazine

40. Approval is granted to permit the placement of a Type 4 (shed type) explosive storage magazine at the W12A Landfill Site for the storage of explosives with exclusive access restricted to members of the London Police Services Explosive Disposal Unit all in accordance with Item 25 in Schedule "A".

41. Explosives shall not be stored at the site until such time that a copy of a forthcoming license to be issued by the Explosives Regulatory Division, Natural Resources Canada authorizing the storage of explosives at the W12A Landfill Site has been received by the Owner and submitted to both the Director and the District Manager.

42. The storage and movement of explosives at the site shall at all times be in strict accordance with the standards specified in the federal Explosives Act, the Explosives Regulations, and the "Storage Standards for Industrial Explosives" published by the Explosives Regulatory Division, Natural Resources Canada, May 2001, or as amended.

43. The explosive storage magazine shall be surrounded by a 2.4 metre high barbed wire chain link security fence with access restricted to members of the London Police Services Explosive Disposal Unit.

44. At no time shall explosives be detonated at the site.

Household Hazardous Waste (HHW) Depot

45. (a) The operating time of the HHW Depot shall be limited to Monday to Saturday between the hours of 7:00 a.m. and 5:00 p.m.; and

(b) The maximum amount of waste in storage, at any time, at this Site shall not exceed 30,000 litres.

46. (1) The HHW Depot shall be designed and operated in accordance with Item No. 2 in Schedule "A".

(2) No radioactive or PCB or pathological wastes with the exception of fire alarms and sharps and syringes only shall be accepted at the Site.

47. Incoming waste shall be inspected prior to being received at the Site to ensure that the Site is approved to accept that type of waste.

48. The Owner shall ensure that adequately trained persons are on duty at all times during the operation of the Site to provide proper supervision of activities, and handling of wastes.

49. The Owner shall ensure that adequate fire fighting equipment is available at the Site at all

times during the operating hours and that on-site supervisors are familiar with the use of such equipment.

50. Those wastes, which by reason of their type and/or quantity, which are to be bulked and leave the Site, shall be transported, processed, or disposed by firms which are licensed for such transport, processing, or disposal by the Ministry.

51. The Owner, being a generator of household wastes, that because of their type and/or quantity will necessitate transport, processing, or disposal by firms licensed by the Ministry, must prepare Generator Registration Reports as required under Regulation 347, R.R.O. 1990.

52. If any addition, deletion or changes to the Site and/or the waste classes received, stored and shipped from the Site are contemplated, application shall be made to the Ministry for approval, and such additions, deletions or changes shall not be made until approval has been granted.

53. In the event that unacceptable waste is received at the HHW Depot, the Owner shall:

- a. refuse receipt of the unacceptable waste and return the waste to the generator if safe to do so; or
- b. if return of the waste is not feasible, the Owner shall isolate the unacceptable waste and remove it from the HHW Depot within seventy-two (72) hours, in accordance with Reg. 347; and
- c. the Owner shall review the incident and take appropriate steps to prevent future receipt of unacceptable waste.

54. All household hazardous waste received at the HHW Depot shall be removed from the HHW Depot by an approved Waste Management System, as defined under Regulation 347, R.R.O. 1990, and taken to a Ministry approved waste disposal HHW Depot within ninety (90) days of receipt;

55. No HHW shall be stored at the HHW Depot for a period longer than three (3) months without approval of the District Manager.

56. The Owner shall maintain a log book at the HHW depot which shall record, on a weekly basis:

- a. date of record;
- b. types, quantities and source of waste received;
- c. quantities of waste stored at the Depot;
- d. quantities and destination of waste shipped from the Depot;
- e. quantities of paints returned or sold to the general public;
- f. results of routine, visual inspection of the Depot; and

g. any reporting of spills or upsets and actions taken to contain and manage.

Site Capacity

57. The total waste disposal capacity of the Site including waste and daily cover is 26.3 million cubic metres.

Fill Rate

58. The maximum rates at which this Site may receive waste are 500,000 tonnes per year.

3. APPROVED WORKS - LANDFILL EXPANSION

Landfill expansion Approval

1. (1) Approval is hereby granted of the detailed design for the construction of landfill cell Phase 1E to 8E and Phase 1ND (dedicated Non-Decomposable Waste Cell), Leachate Collection System (LCS), Leachate Mounding Control System (LMCS), Finger Drain Leachate Collectors (FDLC), Landfill Gas Collection System (LGCS) and Landfill Gas Flaring System (LGFS), all in accordance with the Design and Operations Report which is included as Item 38 in Schedule "A" of this Approval .

(2) Alterations to the Leachate Storage Tanks, and Leachate Pumping Station are approved in accordance with Item 38 of Schedule "A".

2. Construction of landfill cells Phase 1E to 8E and Phase 1ND (dedicated Non-Decomposable Waste Cell), Leachate Collection System (LCS), Leachate Mounding Control System (LMCS), Finger Drain Leachate Collectors (FDLC), Landfill Gas Collection System (LGCS) and Landfill Gas Flaring System (LGFS) shall be in accordance with the detailed provided in the Design and Operations Report included as Item 38 in Schedule "A". Any significant variances from the approved design for the Site is subject to approval by the Director.

Ancillary Features

3. Approval is hereby granted for the detailed design and construction of ancillary facilities associated with landfill expansion, including but not limited to new access roads, weigh scales and scale house, multi-use operations building (administration, garage, landfill gas utilization facility), public drop-off area, HHW Depot and screening berms, all in accordance with Item 38 of Schedule "A" in the Approval.

Leachate Collection, Mounding Control and Disposal System

4. The replacement/expansion of the Leachate Collection System (LCS), and Leachate Mounding Control System (LMCS) and Finger Drain Leachate Collectors (FDLC) shall be constructed in accordance with Section 8.6.2 of Item 38 of Schedule "A"..

5. The Owner shall exercise due diligence in ensuring that, at all times, the LCS, LMCS, FDLC and the related equipment and appurtenances used to achieve compliance with this Approval are

properly operated and maintained. Proper operation and maintenance shall include effective performance monitoring, adequate operator training, including training in all procedures and other requirements of this Approval and the Act and regulations, process controls and alarms.

6. The Owner shall prepare an updated operations manual within six (6) months of the completion of construction of the LCS, LMCS, and FDLC, that includes, but not necessarily limited to, the following information:

a. Health and safety;

b. Waste acceptance;

c. Waste disposal area and development;

d. Nuisance management;

e. operating procedures for routine operation of the LCS, LMCS, and FDLC;

f. inspection programs, including frequency of inspection, for the LCS, LMCS, and FDLC and the methods or tests employed to detect when maintenance is necessary;

g. repair and maintenance programs, including the frequency of repair and maintenance for the LCS, LMCS, and FDLC;

h. procedures for the inspection and calibration of monitoring equipment;

i. a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager;

j. Contingency plans and emergency procedures for the Site and the LCDS. The LCDS plans shall also include a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager;

k. Repair and maintenance programs, including the frequency of repair and maintenance for the LCDS; and

l. Procedures for the inspection and calibration of monitoring equipment for the LCDS

m. procedures for receiving, responding and recording public complaints, including recording any follow up actions taken.

7. The Owner shall maintain the operations manual current and retain a copy at the Site or Owner's Head Office for the operational life of the LCS, LMCS, and FDLC. Upon request, the Owner shall make the manual available to Ministry staff.

8. Within one (1) year of the completion of construction of the proposed LCS, LMCS, and FDLC, the Owner shall prepare a set of as-built drawings showing the LCS, LMCS, and FDLC “as constructed”. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the Site or the Owner's Head Office for the operational life of the LCS, LMCS, and FDLC.

Landfill Gas Collection System and Landfill Gas Flaring System

9. The Landfill Gas Collection System (LGCS) and Landfill Gas Flaring System (LGFS) shall be constructed and operated in accordance with Section 9 of the Design and Operations Report and Appendix I – Landfill Gas Collection System Expansion System Design Report and Landfill Gas Flare System – Conceptual Design Report of Item 38 of Schedule A.

10. Prior to the commencing of the construction of the LGCS and LGFS in the expansion stage, the Owner shall have in place, and available for Ministry review upon request, the following:

- a. An odour control plan to minimize odour impacts off-site during the construction phase;
- b. A monitoring plan for odour and air emissions during the construction phase of the work and post-construction;
- c. A sediment/erosion control plan to be implemented during the construction and post-construction for the installation of the landfill gas collection and control system; and
- d. A construction schedule for the installation of the landfill gas collection and control system.

11. Within ninety (90) days of the commissioning of the expanded LGCS and LGFS, the Owner shall submit to the District Manager a construction report detailing the construction activities and any design changes made to the system during construction. This report shall include but not be limited to the following topics:

- a. “as-built” drawing(s) of the landfill gas collection and control system including the system layout and the details;
- b. a description of the various construction stages;
- c. quality assurance/quality control plan for the construction; and
- d. any changes to the design of the landfill gas collection and control system.

12. No later than ninety (90) days after the commissioning of the expanded LGCS and LGFS for each Phase of the landfill expansion, the Owner shall submit to the District Manager for approval, the Operation and Maintenance Manual for the LGCS and LGFS. The report shall provide, but not be limited to, details on inspection and maintenance schedules, documentation procedures, shut-down procedures, Ministry contact procedures, flare operations, and maintenance.

13. The Owner shall operate and maintain LGCS and LGFS as outlined in the Operation and Maintenance Manual as required by Condition 3(12).

Site Preparation Report

14. The Owner shall not commence landfilling in a newly prepared/constructed cells Phases 3E to 8E and 1ND (Dedicated Non-Decomposable Waste Cell) until a written report has been submitted to the Director and District Manager documenting all construction, QA/QC activities and procedures, and confirming that the Site conditions and details of the construction of the fill area are in accordance with the approved design plans and specifications for the Site.

4. COMPLAINT PROCEDURE

1. If at any time, the Owner receives complaints or if the Ministry notifies the Owner of complaints received regarding the operation of the Site regarding the operation of the Site, the Owner shall respond to these complaints according to the following procedure:

a. The Owner shall record and number each complaint, either electronically or in a log book, and shall include the following information: the nature of the complaint, the name, address and the telephone number of the complainant if the complainant will provide this information and the time and date of the complaint;

b. The Owner, upon notification of the complaint, shall initiate appropriate steps to determine all possible causes of the complaint, and proceed to take the necessary actions to eliminate the cause of the complaint; and

c. The Owner shall complete a written report and submit a copy to the ministry 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 recurrence of similar incidents.

5. EMERGENCY RESPONSE

1. Any spills, fires or other emergency situations shall be forthwith reported directly to the Ministry's Spills Action Centre (1-800-268-6060) and shall be cleaned up immediately.

2. In addition, the Owner shall submit, to the District Manager a written report within five (5) business days of the emergency situation, outlining the nature of the incident, remedial measures taken, handling of waste generated as a result of the emergency situation and the measures taken to prevent future occurrences at the Site.

3. All wastes resulting from an emergency situation shall be managed and disposed of in accordance with Reg. 347.

4. All equipment and materials required to handle the emergency situations shall be:

(a) kept on hand at all times that waste landfilling and/or handling is undertaken at the Site; and

(b) adequately maintained and kept in good repair.

5. The Owner shall ensure that the emergency response personnel are familiar with the use of such equipment and its location(s).

6. EMPLOYEE TRAINING

1. If has not already been developed, a training plan for all employees that operate any aspect of the Site shall be developed and implemented by the Owner/Operator within 90 days of the issuance of this Approval. Only Trained Personnel shall operate any aspect of the Site or carry out any activity required under this Approval.

7. ENVIRONMENTAL MONITORING PROGRAM

Environmental Monitoring Program

1. The Owner shall conduct the environmental monitoring program as noted below, and in accordance with Items 38 & 39 of Schedule "A", Tables 1 -5 of Schedule "B" and Figure 4 of Schedule "C":

- Table 1 & 2, Groundwater Monitoring
- Table 3: Surface Water Monitoring
- Table 4: Leachate Monitoring
- Table 5: Landfill Gas Monitoring

2. Any off site exceedances of parameters for groundwater, surface water, or landfill gases shall be reported to the District Manager within seven (7) days of receiving laboratory test results that indicate an exceedance. In addition, a statement detailing which results are out of compliance with the Ministry's guidelines and objectives shall be provided at the same time as the results.

Groundwater Wells/ Leachate Monitors/ Landfill Gas Probes

3. The Owner shall ensure that all groundwater and leachate monitoring wells and landfill gas probes which form part of the monitoring program shall be properly capped, locked and protected from damage.

4. Where landfilling is to proceed around groundwater, leachate monitoring wells and landfill gas probes, suitable extensions shall be added to the wells as required, and the wells shall be properly re-secured and protected.

5. Any groundwater and leachate monitoring wells, and landfill gas probes wells included in the ongoing monitoring program that are damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.

6. The Owner shall repair or replace any groundwater and leachate monitoring wells, and landfill gas probes are destroyed or in any way made to be inoperable for sampling, but still required as part of the monitoring program, such that no more than one regular sampling event is missed.

7. All groundwater and leachate monitoring wells and landfill gas probes which are no longer required as part of the groundwater monitoring program, and have been approved by the District Manager for abandonment, shall be decommissioned by the Owner, as required, in accordance with Ontario Regulation 903. A report on the decommissioning of the well shall be included in the Annual Report for the reporting period during which the well was decommissioned.

Compliance Criteria

8. The Site shall be operated in such a way as to ensure compliance with the following:

- (a) Reasonable Use Guideline B-7 for the protection of the groundwater at the Site; and
- (c) O. Reg. 232/98 for landfill gases at the Site boundary and within the Site.

Trigger Mechanism and Contingency Plan

9. In the event of a confirmed exceedance of a site-specific trigger level relating to leachate mounding or groundwater or surface water impacts due to leachate, the Owner shall immediately notify the District Manager, and an investigation into the cause and the need for implementation of remedial or contingency actions shall be carried out by the Owner in accordance with the approved trigger mechanisms and associated contingency plans described in Section 13 of the Design and Operations Report in Item 38 in Schedule "A" attached to this Approval.

10. The Owner shall ensure that any proposed changes to the site-specific trigger levels for groundwater and surface water impacts due to leachate shall be approved in advance by the Director via an amendment to this Approval.

11. If monitoring results, investigative activities and implementation criteria indicate the need to implement contingency measures, the Owner shall ensure that the following steps are taken:

- a. The District Manager shall be notified by the Owner as soon as possible of the need to implement contingency measures;
- b. Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures shall be prepared and submitted by the Owner to the District Manager for approval.

Changes to the Monitoring Plan

12. The Owner may request to make changes to the monitoring program(s) to the District Manager in accordance with the recommendations of the Annual Report. The Owner shall make clear reference to the proposed changes in a separate letter that shall accompany the Annual Report.

13. Within fourteen (14) days of receiving the written correspondence from the District Manager confirming that the District Manager is in agreement with the proposed changes to the environmental monitoring program, the Owner shall forward a letter identifying the proposed changes and a copy of the correspondences from the District Manager and all other correspondences and responses related to the changes to the monitoring program, to the Director requesting the Approval be amended to approve the proposed changes to the environmental monitoring plan prior to implementation.

14. In the event any other changes to the environmental monitoring program are proposed outside of the recommendation of the Annual Report, the Owner shall follow current ministry procedures for seeking approval for amending the Approval.

8. RECORD KEEPING AND REPORTING

Daily Log

1. A daily log (written or electronic form on the days the site is in operation) shall be maintained and shall include the following information:

- (a) the type, date and time of arrival, hauler, and quantity (tonnes or cubic metre) of all waste and cover material received at the Site;
- (b) the area of the Site in which waste disposal operations are taking place;
- (c) a record of litter collection activities;
- (d) a record of the monthly inspections;
- (e) a record of weekly inspection of leachate seeps as required in Condition 2(38); and
- (e) a description of any out-of-service period of any control, treatment, disposal or monitoring facilities, the reasons for the loss of service, and action taken to restore and maintain service.

Inspections and Records

2. An inspection of the entire Site and all equipment on the Site shall be conducted on a monthly basis to ensure that:

- (a) the Site is secure;
- (b) that the operation of the Site is not causing any nuisances;
- (c) that the operation of the Site is not causing any adverse effects on the environment; and
- (d) that the Site is being operated in compliance with this Approval.

Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the Site if needed.

3. A record of the inspections shall be kept that includes:

- (a) the name and signature of person that conducted the inspection;
- (b) the date and time of the inspection;
- (c) the list of any deficiencies discovered;
- (d) the recommendations for remedial action; and

(e) the date, time and description of actions taken.

4. A record shall be kept in the log (electronic or written form) of all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.

Annual Report

5. The Owner shall prepare an Annual Report on landfill development, operations and monitoring of the W12A Landfill Site. The report shall be submitted to the District Manager by March 31 of each year, or an alternative date acceptable to the District Manager, and shall cover the preceding calendar year. The report shall include the following:

- a. The results and an interpretive analysis of the results of all leachate, groundwater, surface water and landfill gas monitoring, including an assessment of the need to amend the monitoring programs and trigger mechanisms or to implement contingency measures;
- b. An assessment of the operation and performance of all engineered facilities, the need to amend the design or operation of the landfill site and HHW Depot, and the adequacy of and need to implement the contingency plans;
- c. Site plans showing the existing contours of the landfill site; areas of landfilling operation during the reporting period; areas of intended operation during the next reporting period; areas of excavation during the reporting period; the progress of final cover, vegetative cover, and any intermediate cover application; the progress of any liner placement and leachate collection system placement; previously existing site facilities; facilities installed during the reporting period; and site preparations and facilities planned for installation during the next reporting period;
- d. Calculations of the volume of waste, daily and intermediate cover, final cover deposited or placed at the site during the reporting period and a calculation of the total volume of site capacity used during the reporting period;
- e. A calculation of the remaining waste disposal capacity of the site and an estimate of the remaining Site life;
- f. A summary of the quantity of any leachate removed from the Site during each operating week;
- g. Summaries of the monthly and total annual quantity (tonnes) of waste received at the Site and HHW Depot;
- h. A summary of any public complaints received by the Owner and the responses made;
- i. A discussion of any operational problems encountered at the Site and corrective action taken by the Owner;
- j. The status of compliance with all conditions of this Approval, including the inspection, monitoring and reporting requirements in the conditions of this Approval;

k. Any other information with respect to the landfill site which the District Manager may require from time to time;

l. a drawing(s) indicating all groundwater, surface water and gas monitoring locations; and

m. tables outlining monitor locations, analytical parameters sampled and frequency of sampling;

9. CLOSURE PLAN

Landfill Site

1. Two years before the Site is expected to stop receiving waste, the Owner shall develop and submit an updated Closure Plan for the Director's approval. The Closure Plan shall include but not be limited to the following:

a. A plan showing Site appearance after closure;

b. A description of the proposed end use of the Site;

c. Descriptions of the procedures for closure of the Site, including:

i. Advance notification of the public of the landfill closure;

ii. Posting of a sign at the Site entrance indicating the landfill is closed and identifying any alternative waste disposal arrangements;

iii. Completion, inspection and maintenance of the final cover and landscaping;

iv. Site security;

v. Removal of unnecessary landfill-related structures, buildings and facilities; and

vi. Final construction of any control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas;

d. Descriptions of the procedures for post-closure care of the Site, including:

i. Operation, inspection and maintenance of the control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas;

- ii. Record keeping and reporting; and
- iii. Complaint contact and response procedures;

e. An assessment of the adequacy of and need to implement the contingency plans for leachate and landfill gas; and

f. An updated estimate of the contaminating life span of the Site, based on the results of the monitoring programs to date.

Household Hazardous Waste Depot

2. The Owner must submit, for approval by the Director, a written closure plan for the HHW Depot three (3) months prior to closure of the HHW Depot.

a. This plan must include, as a minimum, a description of the work that will be done to facilitate closure of the HHW Depot and a schedule for completion of that work; and

b. Within ten (10) days after closure of the HHW Depot, the Owner must notify the Director and District Manager, in writing, that the HHW Depot has been closed in accordance with the approved closure plan.

3. The Site shall be closed in accordance with the closure plan as approved by the Director.

10. PUBLIC REVIEW COMMITTEE (PRC)

10.1 The Owner shall forthwith take all reasonable steps to maintain and participate in a landfill Public Liaison Committee (PLC), which is to function within Terms of Reference for the PLC, as prepared in consultation with the members of the PLC and approved by the City of London, and as amended from time to time in accordance with the applicable amending procedures outlined in the Terms of Reference. The PLC shall serve as a focal point for dissemination, review, and exchange of information regarding the operation of the landfill site, including environmental monitoring, maintenance, complaint resolution, and new approvals or amendments to existing approvals related to the operation of the landfill site.

10.2 The PLC shall meet a minimum of twice per year.

10.3 Membership of the PLC shall be in accordance with the Terms of Reference for the PLC, which shall as a minimum include at least one member from the Owner and at least two members from interested parties.

10.4 Copies of all reports or other submissions required by the conditions of this Approval shall be made available to the PLC in accordance with the deadlines specified in the Conditions.

10.5 The Owner shall provide to members of the PLC and to any neighbouring residents reasonable notice and opportunities to make comments regarding any proposed amendment to this Approval. The Owner shall forward to the Director for consideration any written comments received by the Owner.

10.6 The Owner may discontinue the PLC if interest decreases substantially over time. If discontinued, the Owner shall re-establish the PLC upon request of interested parties.

Schedule A

1. Set of Plans prepared by James F. MacLaren Limited entitled "Proposed Long Term Sanitary Landfill Site W12-A" dated May 1976.
2. Application for Approval of a Waste Disposal Site dated October 26, 1998 including two attachments entitled "Attachments H.H.W. Application", with information on public meetings, Site plan and zoning, and " Additional Information for City of London HHW Application" with information on storage, acceptable wastes, PCB's, staff training, record keeping, decommissioning and general operations.
3. Application dated December 14, 1999 and signed by Jay Stanford, Division Manager, Solid Waste Management, Corporation of the City of London.
4. Letter dated December 16, 1999 from Jay Stanford, MA, Manager, Solid Waste, City of London to Andj Dominski, P. Eng. Manager, Waste Section, Environmental Assessment and Approvals Branch regarding application of approval for construction of a waste storage area at the W12A Landfill Site to accept "night" garbage with the following attachments:

Attachment A - Drawings of Waste Storage Area.

Attachment B - Agenda for October 27, 1999, Board of Control Meeting.

Attachment C - Notice to Area Property Owners and Members of the W12A Liaison Committee.

Attachment D - Persons Receiving Notice.

5. Letter dated February 18, 2000 from George Lai, P. Eng. Senior Engineer, MOE to Wesley Abbott, City of London regarding application for approval of waste site, proposed changes to operation.
6. Letter dated June 2, 2000 and attached drawings from Wesley Abbott, Project Manager, Solid Waste, City of London to George Lai, Senior Engineer, Environmental Assessment and Approvals Branch, MOE regarding litter control fences at the W12A Landfill night garbage storage facility.
7. Letter from Jay Stanford, Manager, Solid Waste, City of London, to A. Dominski, MOE, dated November 8, 2000.
8. Application for Approval of a Waste Disposal Site dated November 8, 2000.
9. Set of Plans entitled: "City of London, Weigh Scales and Scale House for W12A Landfill Site", prepared by R.V. Anderson Associates Limited, dated November 2000.
10. Letter dated February 5, 2001 from W. Abbott to M. Turner and attached set of plans by R.V. Anderson Associates Ltd entitled "City Of London - Weigh Scale Building", revision dated November 24, 2000.
11. Letter dated August 10, 2000 from Jay Stanford, City of London, to A. Dominski, Ministry of the Environment, Re: Estimation of Rate of Fill for W12A (Approval of Approval A042102).
12. Letter dated October 13, 2000 from A. Dominski, Ministry of the Environment, to Jay Stanford, City of London, Re: City of London Landfill Site W12A, Provisional Approval of Approval No. A042102 (Response to Item 11 on Estimation of Rate of Fill).
13. Letter dated February 19, 2002 from Jay Stanford, City of London, to Ian Parrott, Ministry of the Environment, Re: W12A Landfill (Approval of Approval A042102) and Application for a Provisional Approval for a Waste Disposal Site, signed by Ivar Andersen, City of London, dated February 13, 2002 (MOEE Ref. #6016-57SL3K).
 - a. Report entitled, "Phase 2 of the W12A Landfill, Application to Amend Approval of Approval No. A042102, Design and Operations Report", prepared by Earth Tech Canada Inc. and Dillon Consulting Inc., dated February 2002, including Appendices A to H.
14. Letter dated February 25, 2002 from Wesley Abbott, City of London, to Dave Staseff, Ministry of the Environment, Re: W12A Landfill (Approval A042102), and attached letter report dated July 4, 2001 from Frank Barone, Golder Associates Ltd., to Jim MacLachlan, Dillon Consulting Ltd., Re: Analysis of Differential Settlement of Landfill Subgrade, W12A Landfill.

15. Letter dated May 9, 2002 from Wesley Abbott, City of London, to Dave Staseff, Ministry of the Environment, Re: W12A Landfill (Approval of Approval A042102), and attached letter report dated May 1, 2002 from Frank Barone, Golder Associates Ltd., to Wes Abbott, City of London, Re: City of London W12A Landfill, Phase 2 Final Design, Proposal to Use Tire Shreds for the Side slope Leachate Drainage Layer.
16. Letter dated July 4, 2002 from Dave Staseff, Ministry of the Environment and Energy, to Wesley Abbott, City of London, Re: W12A Landfill - Phase 2 - Design & Operations Report (Comments on Item 22a).
17. Letter dated July 5, 2002 from Dave Staseff, Ministry of the Environment and Energy, to Wesley Abbott, City of London, Re: W12A Landfill - Phase 2 - Design & Operations Report - Appendices (Comments on Item 22a).
18. Letter dated July 8, 2002 from Dave Staseff, Ministry of the Environment and Energy, to Wesley Abbott, City of London, Re: Analysis of Differential Settlement of Landfill Subgrade, W12A Landfill - Phase 2 - Design & Operations Report (Comments on Item 23).
19. Letter dated July 9, 2002 from Dave Staseff, Ministry of the Environment and Energy, to Wesley Abbott, City of London, Re: Tire Shreds - Sideslope Leachate Drainage Layer, W12A Landfill - Phase 2 - Design & Operations Report (Comments on Item 16).
20. Letter dated July 12, 2002 from Wesley Abbott, City of London, to Dave Staseff, Ministry of the Environment, Re: W12A Landfill, Application to Amend Approval A042102, MOEE Ref. #6016-57SL3K (Response to Items 16 & 17).
21. Letter dated July 12, 2002 from James MacLachlan, Dillon Consulting Ltd., to David Staseff, Ministry of the Environment, Re: W12A Landfill - Phase 2 - Design & Operations Report, Application to Amend Approval No. A042102, MOE Ref. #6016-57SL3K (Response to Item 16).
22. Letter dated July 12, 2002 from Chris Caers, Earth Tech Canada Inc., to Dave Staseff, Ministry of the Environment, Re: Earth Tech Responses to MOE Comments - Phase 2: Design and Operations Report, Application to Amend Approval No. A042102 (Response to Item 16).
23. Letter dated July 12, 2002 from Frank Barone, Golder Associates Ltd., to Dave Staseff, Ministry of the Environment, Re: Response to MOE Comments on Proposal to Use Tire Shreds for the Side slope Leachate Drainage Layer, City of London W12A Landfill, Phase 2 Final Design (Response to Item 19).
24. Report entitled "Phase 2 of the W12A Landfill - Design and Operations Report - Approval No. A042102", prepared by Earth Tech Canada Inc. and Dillon Consulting Limited, dated November 2002, including Section 7.0 - Landfill Gas Management, revised September 2003.
25. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated October 3, 2003 and signed by Sal Circelli, Manager Solid Waste Operations, Corporation of the City of London, submitted to the Director, Ministry of the Environment under a covering letter dated October 3, 2003 signed by Brent Shea, Detective Sergeant, London Police Service.

26. Application to amend a Approval for a Waste Disposal Site, dated March 31, 2008 and signed by Mr. John Fitzgerald, division manager, London City.
27. Document dated April 18, 2008, prepared by Mr. David Evans, Project Manager, R.V.Anderson Associates Ltd., providing Bioset process information.
28. Document named "City of London Sewage Sludge Disposal", dated August 22, 2008, prepared by Mr. David Evans, Project Manager, R.V.Anderson Associates Ltd.
29. Report entitled "Design Brief- W12A Leachate Pumping Station and Forcemain" prepared by AECM, dated April 2010.
30. Report entitled "Ontario Regulation 347 Exemption and Design Report W12A Landfill Site London, Ontario" dated June 23, 2009 prepared by Comcor Environmental Limited.
31. The detailed design drawing set entitled "Expansion of W12A Landfill Gas Collection System In Cell 6 South And 5 West" dated April 23, 2010 prepared by Comcor Environmental Limited.
32. Report entitled "Operation and Maintenance Manual, Landfill Gas Collection and Flaring System, London W12A Solid Waste Sanitary Landfill Site", dated May 2005 updated October 2007 prepared by Comcor Environmental Limited.
33. Letter dated November 30, 2010, from Wesley Abbott, Division Manager, Solid Waste Management, the Corporation of the City of London, including a map outlining the location of the two dedicated landfill gas monitoring wells.
34. Letter dated April 26, 2013 and supporting documentation addressed to Ms. Doris Dumais, Director, Environmental Approvals Access and Service Integration Branch from Mr. Fabiano Gondim, Dillon Consulting Ltd. requesting amendments to the ECA. The supporting documentation included the following:
 - a. Environmental Compliance Approval Application signed by Mr. Jay Stanford, Director, Environmental Programs and Solid Waste dated April 23, 2013;
 - b. Addendum No. 1 entitled "Phase 2 of the W12A Landfill - Design and Operations Report - Addendum No.1 prepared by Dillon Consulting Ltd.
 - c. Design Report for the Proposed MH701 Pump Station Upgrade prepared by Dillon Consulting Ltd. which includes the following detailed design drawings:
 - i. Drawing No. C-6 entitled "W12A Landfill Cell 6 South - Manhole Layouts" prepared by Dillon Consulting Ltd. (File No. 01-8946) dated November 24, 2003;

ii. Drawing No. C-7 entitled "W12A Landfill Cell 6 South - Temporary Pumping Station" prepared by Dillon Consulting Ltd. (File No. 01-8946) dated November 24, 2003;

iii. Cover Sheet entitled "W12A Landfill Pumping Stations Upgrade" prepared for the City of London by Dillon Consulting Ltd (Project No.12--6978) dated April 2013;

iv. Drawing No. R100 entitled "Existing MH 701 Pump Station and Forcemain Route - Plans" prepared by Dillon Consulting Ltd. (File No. 12-6978) dated April 30, 2013;

v. Drawing No. D201 entitled "Existing MH 701 Pump Station Removals" prepared by Dillon Consulting Ltd. (File No. 12-6978) dated April 30, 2013;

vi. Drawing No. P001 entitled "Miscellaneous Details" prepared by Dillon Consulting Ltd. (File No. 12-6978) dated April 30, 2013;

vii. Drawing No. P201 entitled "Existing Pump Station and New Metering Chamber Plans" prepared by Dillon Consulting Ltd. (File No. 12-6978) dated April 30, 2013; and

viii. Drawing No. P202 entitled "Existing Pump Station and New Metering Chamber Sections" prepared by Dillon Consulting Ltd. (File No. 12-6978) dated April 30, 2013.

35. Letter dated February 19, 2016 with attached supporting documentation, from Wesley Abbott, Division Manager, Solid waste Management, the Corporation of the City of London to Kathleen Hedley, Director, Environmental Approvals Branch, Ministry of the Environment and Climate Change, Re: W12A Landfill Site Service Area Amendment, with;

Selected attached supporting documentation which includes:

a) Revised Environmental Compliance Approval Application dated February 19, 2016, signed by Michael Losee, Manager, Solid Waste Engineering & Planning;

b) Environmental Screening Report, W12A Landfill Service Area Amendment, dated August 2015, prepared by the Corporation of the City of London;

c) Statement of Completion - Environmental Screening Process, W12A Landfill Site, dated February 19, 2016, signed by Wesley Abbott, Division Manager, Solid waste Management, the Corporation of the City of London.

36. Environmental Compliance Approval Application dated December 09, 2024,
37. Amendment Application for the W12A Landfill Expansion - Waste, including Appendices A to H, WSP Canada Inc., dated February 25, 2025.
38. Design and Operations Report, W12A Landfill Expansion, London, Ontario, WSP Canada Inc., November 22, 2024.
39. Email dated April 2, 2025 from Fabiano Gondim, M.Eng., P.Eng., Senior Waste Engineer, WSP Canada Inc, to Abdul Quyum, P.Eng. including all attachments.
- WSP Technical Memorandum dated April 2, 2025, Re.: Response to COMMENTS AND QUESTIONS RELATED TO ECA Amendment Application for Waste disposal site – W12A Landfill Vertical Expansion.
 - WSP Technical Memorandum dated April 2, 2025, Re.: Design and Operations, Initiation of Landfilling in Phase 1E, W12A Landfill Expansion, City of London, ON.
 - WSP Technical Memorandum dated April 2, 2025, Re.: Design and Operations, Initiation of Landfilling in the Non-Decomposable Waste Cell, W12A Landfill Expansion, City of London, ON.

Schedule "B"

This Schedule "B" forms part of Provisional Approval of Approval No. A042102.

Table 1: Groundwater Monitoring Locations

Monitoring Wells		Parameters	Sampling Dates
Description	Identification No.		
Upper Aquifer - On-Site All monitoring wells located at or near the expanded landfill site boundary that are screened in the Upper Aquifer	13-1a, 13-3a, 91-4a, 84-5b, 82-6, 92-11, 94-1, 94-3, 01-9a, 01-12b, 01-14, 04-2a, 06-1, 06-2, 19-4b, 19-5b, 19-6b	Comprehensive List Indicator List	May - June September - October
Upper Aquifer - Off-Site Representative monitoring wells located in adjacent City owned properties that are screened in the shallow aquifer	05-1, 05-2, 05-3, 05-5	Indicator List	May - June
White Oak Aquifer Representative monitoring wells (on-Site and off-Site) that are screened in the White Oaks Aquifer	92-8, 92-9, 92-10a, 92-12, 94-2, 01-3a, 19-4a, 19-5a, 19-6a	Indicator List	May - June
Upper Fractured Till Zone Monitoring wells to assess the effectiveness of the Phase 1 perimeter LCS	19-7c, 00-3b, FCZ-1, FCZ-2, FCZ-3	Indicator List	May - June
Till Till monitor below Phase 1 waste	00-7a	Comprehensive List	May - June
All Monitoring Wells	Monitoring wells listed above plus, 92-1, 92-2, 92-3, 92-4, 92-7a, 01-12a, 01-13, 00-3a, 05-4, 19-7a, 19-7b, 19-1, 19-2, 19-3	Water levels	May - June

Table 2: Off-site Private Well Monitoring Locations (subject to owner's consent)

Location	Parameters	Sampling Dates
Water Wells - On-Site 14	Indicator List	June
Water Wells - Off-Site 17, 20, 23, 24, 25, 26, 27, 32, 33, 131	Indicator List	June

Table 3: Surface Water Monitoring

Location	Parameters	Sampling Dates
On-Site Surface Water Sampling Stations Stations 1, 2, 3, 5, 7	Comprehensive List, Indicator List	One spring and one fall sampling event, Two other sampling events
Off-Site Surface Water Sampling Stations Station 10	Comprehensive List, Indicator List	One spring and one fall sampling event, Two other sampling events

Table 4: Leachate Monitoring

Location	Parameters	Sampling Dates
Representative Phase 1 and Phase 2 Leachate Monitoring Wells Monitoring wells 97-2, 97-5, 97-7, L1 and L2	Comprehensive List Indicator List	May – June September - October
Main Leachate Pump Station – Wet Well Leachate loading station #1	Comprehensive List Indicator List	May – June September - October
All Leachate Monitoring Wells Monitoring wells 97-2, 97-3, 97-4, 97-5, 97-7, L1 and L2	Water Levels	June

Table 5: Landfill Gas Monitoring

Location	Parameters	Sampling Dates
Methane Monitoring Wells - On-Site G1-11, G2-11 and G3	Methane gas	Annual sampling events in the winter, spring, and fall. Two other events during periods of LFG collection system shut down

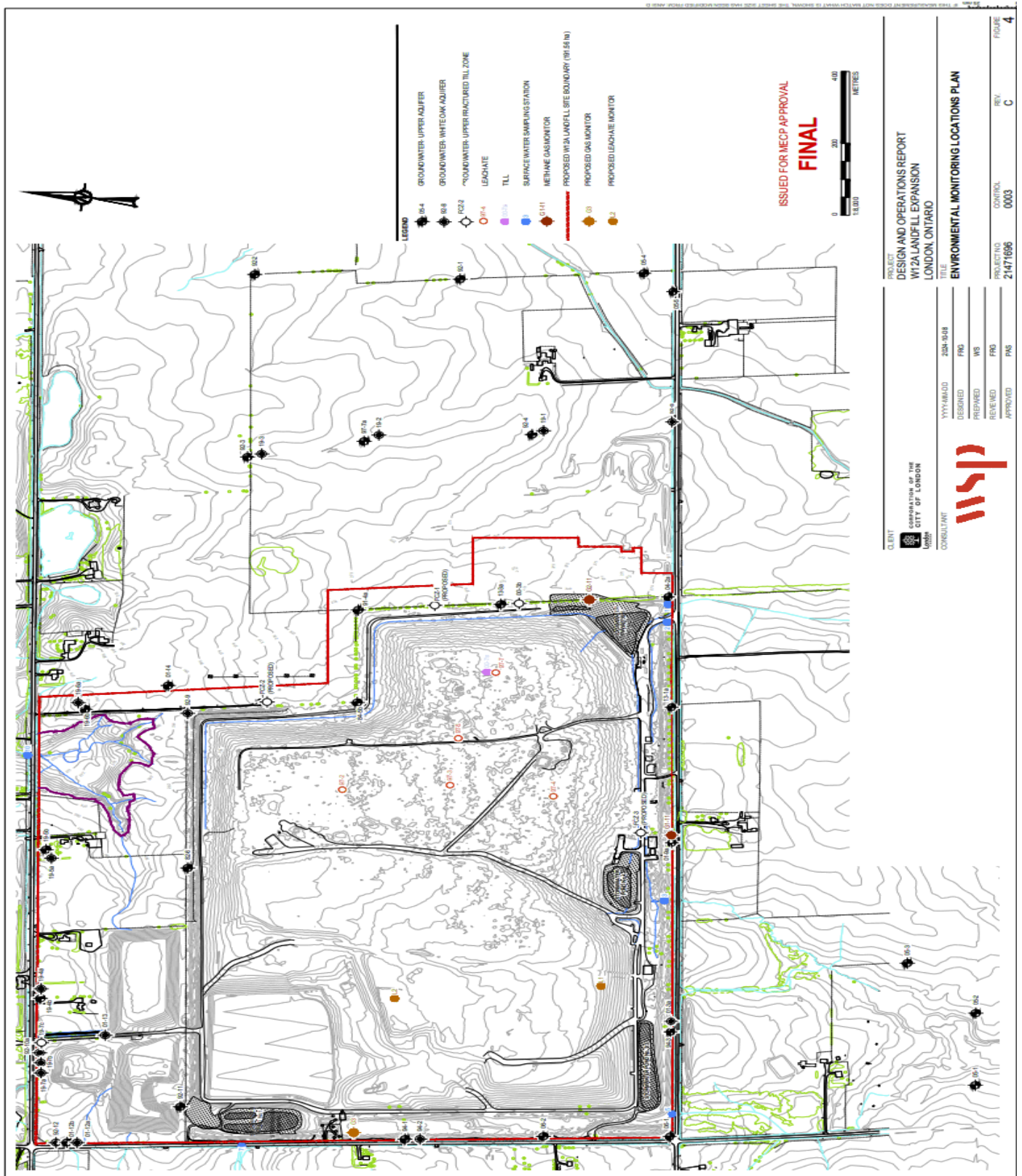
Table 6: Analytical Parameters

Parameter	Groundwater Monitoring Wells		Leachate Monitoring		Water Wells		Surface Water Sampling Stations	
	Comp.	Indicator	Comp.	Indicator	Comp.	Indicator	Comp.	Indicator
General								
Alkalinity	✓	✓	✓	✓	✓	✓	✓	✓
BOD ₅			✓	✓			✓	✓
COD	✓		✓	✓			✓	✓
Conductivity	✓	✓	✓	✓	✓	✓	✓	✓
DOC	✓	✓	✓	✓	✓	✓		
Hardness					✓	✓	✓	✓
pH	✓	✓	✓	✓	✓	✓	✓	✓
Phenols	✓	✓	✓	✓	✓	✓	✓	✓
Sulphate	✓	✓	✓	✓	✓	✓	✓	✓
Suspended Solids			✓	✓			✓	✓
General - Nutrients								
Ammonia	✓	✓	✓	✓			✓	✓
Nitrate	✓		✓		✓	✓	✓	✓
Nitrite	✓		✓				✓	✓
TKN	✓		✓				✓	
Total Phosphorus			✓				✓	✓
General - Major Ions								
Chloride	✓	✓	✓	✓	✓	✓	✓	✓
Calcium	✓	✓	✓	✓	✓	✓		
Iron	✓	✓	✓	✓	✓	✓	✓	✓
Magnesium	✓	✓	✓	✓	✓	✓		
Manganese	✓		✓	✓				
Potassium	✓	✓	✓	✓	✓	✓		
Sodium	✓	✓	✓	✓	✓	✓		
Trace Metals								
Arsenic	✓		✓		✓		✓	
Barium	✓		✓		✓		✓	
Boron	✓		✓		✓		✓	
Cadmium	✓	✓	✓	✓	✓	✓	✓	
Chromium	✓		✓		✓		✓	
Copper	✓		✓		✓		✓	
Lead	✓		✓		✓		✓	
Mercury			✓				✓	
Nickel	✓	✓	✓	✓	✓	✓		
Selenium			✓		✓			
Silver					✓			
Strontium					✓			
Zinc	✓		✓		✓		✓	
Volatiles								
EPA 624 Scan			✓					
Field^a								
Conductivity	✓	✓	✓	✓	✓	✓	✓	✓
Dissolved Oxygen							✓	✓
Flow ^a							✓	✓
pH	✓	✓	✓	✓	✓	✓	✓	✓
Temperature	✓	✓					✓	✓

**Schedule
"C"**

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**Monitoring
Program**



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

1. The reason for Conditions 1(1), 1(2), 1(4) through 1(10), 1(14) through 1(16) is to clarify the legal rights and responsibilities of the Owner and Operator under this Approval of Approval.
2. The reasons for Condition 1(3) is to ensure that the Site is designed, operated, monitored and maintained 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.

3. The reasons for Condition 1(11) are 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.

4. The reasons for Condition 1(12) are 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 of Approval.

5. The reason for Condition 1(13) is to ensure that appropriate Ministry staff has ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in this Approval. This Condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the Act, the OWRA, the PA, the NMA and the SDWA.

6. Condition 1(17) has been included in order to clarify what information may be subject to the Freedom of Information Act.

7. The reason for Conditions 1(18) and 1(19) is that the Part II.1 Director is an individual with authority pursuant to Section 197 of the Environmental Protection Act to require withdrawal of registration on the title and provide any person with an interest in property before dealing with the property in any way to give a copy of the Approval to any person who will acquire an interest in the property as a result of the dealing.

8. The reasons for the conditions 1(20) through 1(22) are to ensure the Design and Operations Report is maintained, up-to-date and available at the Site at all times and to ensure that any changes to the Report are done with prior approval from the Ministry].

9. The reason for Condition 2(1) is to grant approval for the design and development of the W12A Landfill Site, including installation of engineered structures.

10. The reasons for Condition 2(2) through 2(4) are to specify the hours of operation for the landfill site and a mechanism for amendment of the hours of operation, as required.

11. The reason for Conditions 2(5) through 2(7) inclusive is to specify the approved areas from which waste may be accepted at the Site, the types and amounts of waste that may be accepted for disposal at the Site, based on the Owner's application and supporting documentation.

12. Conditions 2(8) and 2(9) are included to specify contaminated soils or excess soil reuse requirements as per O. Reg. 416/09, requirements, as amended.

13. The reasons for Condition 2(10) is to ensure that the Site is designed, operated, monitored and maintained 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.

14. The reasons Conditions 2(11) through 2(16) have been included are to ensure asbestos waste is handled and disposed of in accordance with O. Reg. 347 as amended from time to time. Proper

handling and disposal of asbestos waste ensures that the asbestos waste does not cause an adverse impact on the environment and also does not affect human health.

15. The reasons for Condition 2(17) to 2(19) are to ensure that the Site is supervised by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person and to ensure the controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no site attendant is on duty.

16. The reason for Conditions 2(20) and 2(21) is to ensure that users of the Site are fully aware of important information and restrictions related to Site operations and access under this Approval.

17. The reason for Condition 2(22) is to ensure there is a road access for vehicles at the site.

18. The reasons for Condition 2(23) are open burning of municipal waste is unacceptable because of concerns with air emissions, smoke and other nuisance affects, and the potential fire hazard and to make sure burning of brush and wood are carried out in accordance with Ministry guidelines.

19. The reasons for Condition 2(24) are the protection of public health and safety and minimization of the potential for damage to environmental control, monitoring and other works at the landfill Site. Scavenging is the uncontrolled removal of material from waste at a landfill site.

20. The reasons for Condition 2(25) that the Site is operated in a manner which does not result in a hazard or nuisance to the natural environment or any person.

21. The reasons for Condition 2(26) and 2(27) are to ensure that daily/weekly and intermediate cover are used to control potential nuisance effects, and to ensure an acceptable site appearance is maintained. The proper closure of a landfill site requires the application of a final cover which is aesthetically pleasing, controls infiltration, and is suitable for the end use planned for the Site.

22. Condition 2(28) is included to ensure that waste is covered regularly inspected to ensure the site is properly maintained.

23. The reasons for Conditions 2(29) and 2(30) are to specify the approval requirements for use of alternative cover materials at the site and to approve a trial use of specific alternative cover materials to assess their performance at this site.

24. Conditions 2(31) through 2(33) and 3(4) through 3(8) are included to require that the leachate collection system be constructed, properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.

25. The reason for Conditions 2(34) and 3(9) through 3(11) is to ensure the gas collection and flaring system shall be built and operated as per the submission and supporting documentation.

26. The reasons for Conditions 2(35) through 2(39) are to ensure that the night garbage storage facility is operated, inspected and maintained in an environmentally acceptable manner and does

not result in a hazard or nuisance to the natural environment.

27. The reasons for Conditions 2(40) through 2(44) are to ensure that the storage of explosives at the site are done so in accordance with the appropriate federal requirements and that access to the explosives are restricted to authorized personnel only.

28. Conditions 2(45) through 2(56) are included to receive, handle and manage household hazardous waste, specify waste volume, type, quantities and origin of waste the Site is to receive and to ensure that waste is handled properly and to ensure that these facilities are operated in an environmentally acceptable manner for the protection of the natural environment and public health and safety.

29. Conditions 2(57) and 2(58) are included to specify the site total landfill capacity and annual fill rate.

30. Conditions 3(1) through 3(3) are for approving the detailed design for vertical landfill expansion and the ancillary facilities associated with landfill expansion and to allow the Owner to develop and operate the landfill site expansion in accordance with the approved final detailed design

31. Condition 3(12) and 3(13) are included for development of an operational manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the Ministry. Such a manual is an integral part of the operation of these systems. Its compilation and use should assist the Owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the these systems

32. The reasons for Condition 3(14) is to ensure the Owner documents the construction activities and provides this information in a report to the District Manager.

33. The reason for Conditions in Section 4 is to ensure that any complaints regarding landfill operations at this Site are responded to in a timely and efficient manner.

34. Conditions in Section 5 are included to ensure that emergency situations are reported to the Ministry to ensure public health and safety and environmental protection, and emergency situations are handled in a manner to minimize the likelihood of an adverse effect and to ensure public health and safety and environmental protection.

35. The reason for Condition 6 is to ensure that the Site is supervised and operated by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person.

36. Conditions 7(1) and 7(2) is included to specify groundwater, surface water, leachate, and landfill gases monitoring program to prevent water pollution at the Site.

37. Conditions 7(3) to 7(7) are included to ensure the integrity of the monitoring network so that accurate monitoring results are achieved and the natural environment is protected.

38. *The reasons for Condition 7(8) are to specify the performance requirements of the Site to ensure that the Site is performing as designed and the impacts on the natural environment are acceptable.*

39. *Conditions 7(9) to 7(11) inclusive are added to ensure the Owner has a plan with an organized set of procedures for identifying and responding to potential issues relating to groundwater and surface water contamination at the Site's compliance points.*

40. *Conditions 7(12) through 7(14) are included to streamline the approval of the changes to the monitoring plan.*

41. *The reason for Conditions 8(1) and 8(2) is to ensure that accurate waste records are maintained to ensure compliance with the conditions in this Approval of Approval (such as fill rate, site capacity, record keeping, annual reporting), the EPA and its regulations.*

42. *The reason for Conditions 8(3) and 8(4) is to ensure that detailed records of Site inspections are recorded and maintained for inspection and information purposes.*

43. *The reasons for Conditions 8(5) are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or monitoring programs are identified. An Annual Report is an important tool used in reviewing site activities and for determining the effectiveness of site design.*

44. *The reasons for Conditions in Section 9 are to ensure that final closure of the Site is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure the long-term protection of the health and safety of the public and the environment.*

45. *The reason for Conditions in Section 10 are to establish and maintain a forum for the exchange of information and public dialogue on activities to be carried out at the landfill site. Open communication with the public and local authorities is important in helping to maintain high standards for site operation and environmental protection.*

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A042102 issued on October 19, 2007

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.oltt.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 22nd day of April, 2025

Mohsen Keyvani, P.Eng.

Director

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

AQ/

c: District Manager, MECP London - District

Fabiano Gondim P. Eng. and Paul Smolkin P. Eng. (fabiano.gondim@wsp.com), WSP Canada Inc.