

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A461402

Issue Date: November 1, 2024

City of Ottawa
4475 Trail Rd
Richmond, Ontario
K0A 2Z0

Site Location: 7722 Springhill Road
Lot 31, Concession 6
Ottawa City,
K0A 2P0

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:

the use and operation of 19.2 hectare landfilling area within a total site area of 40.5 hectares, being known as the Springhill Landfill Site, which includes the use of the site only for the disposal of the following categories of waste (Note: Use of the site for additional categories of wastes requires a new application and amendments to the Environmental Compliance Approval): domestic, commercial and non-hazardous solid industrial wastes.

Note: This amendment is to remove the suspension of landfilling currently in place and to approve receipt and disposal of 290,050 cubic metres, limited to lightly contaminated and surplus soil to facilitate the final closure of the Site and to start the remedial action plan. New disposal is above the completed Phases 1 through 4B to utilize the remaining approved capacity. There will be no landfilling in Phase 5. The Owner is prohibited to receive any other waste either for disposal or to store temporarily.

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

"Approval" means this Environmental Compliance Approval and any Schedules to it;

"Contaminating Life Span" means contaminating life span as defined in Ontario Regulation 232/98;

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

"Minister" means the Minister of the Ministry or such other member of the Executive Council as may be assigned the administration of the EPA and OWRA under the

Executive Council Act, R.S.O. 1990, c. E.25;

"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;

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

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

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

"Operator" means any person, other than the Owner's employees, authorized by the Owner as having the charge, management or control of any aspect of the Site and includes Tomlinson Waste Management Inc., its successors and assigns;

"Owner" means any person that is responsible for the establishment or operation of the Site being approved by this Approval, and includes the Corporation of the City of Ottawa, and 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;

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

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

"Reg. 347" means R.R.O. 1990, Reg. 347: (General - Waste Management), made under the EPA, as amended;

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

"Schedules" means the following schedules attached to this Approval and forming part of this Approval namely:

- o Schedule 1 - Supporting Documentation;
- o Schedule 2 - Excess Soil Surface Water Runoff Sampling Program;
- o Schedule 3 - Groundwater Level Monitoring Program;
- o Schedule 4 - Wetland Water Level Monitoring Program; and
- o Schedule 5 - Groundwater and Surface Water Quality Monitoring Program;

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

"Site" means the entire waste disposal site known as the Springhill Landfill Site, located at 7722 Springhill Road being described as Part of Lots 31 and 32, Concession 6, in the former Geographic Township of Osgoode, City of Ottawa; and

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

- o relevant waste management legislation, regulations and guidelines;
- o major environmental concerns pertaining to the waste to be handled;
- o occupational health and safety concerns pertaining to the processes and wastes to be handled;
- o management procedures including the use and operation of equipment for the processes and wastes to be handled;
- o emergency response procedures;
- o specific written procedures for the control of nuisance conditions;
- o specific written procedures for refusal of unacceptable waste loads;
- o specific written procedures for the erosion and sediment controls, runoff berms, and temporary sedimentation basins; and
- o the requirements of this Approval.

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

TERMS AND CONDITIONS

1. 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 1.
4. Contaminated and surplus soil disposal activities including the final cover placement for the proposed remediation action plan (Surplus Soil Project) defined and approved in this Approval must be completed by December 2027.

5. This Approval ceases to apply in respect of the aspects of the Surplus Soil Project defined and approved in this Approval that have not been constructed or installed before the date identified in condition 1.4 above.

Interpretation

6. Where there is a conflict between a provision of any document listed in Schedule 1 in this Approval, and the conditions of this Approval, the conditions in this Approval shall take precedence.

7. Where there is a conflict between the application and a provision in any document listed in Schedule 1, the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment.

8. Where there is a conflict between any two documents listed in Schedule 1, the document bearing the most recent date shall take precedence.

9. 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

10. 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

11. 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.

12. Despite the 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 Ownership

13. 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;
- and
- 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.

14. 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.

15. In the event of any change in ownership of the Site, other than change to a successor municipality, the Owner shall notify the successor of and provide the successor with a copy of this Approval, and the Owner shall provide a copy of the notification to the District Manager and the Director.

Registration on Title Requirement

16. Prior to dealing with the property in any way, the Owner shall provide a copy of this Approval and any amendments, to

any person who will acquire an interest in the property as a result of the dealing.

17. a. Within thirty (30) calendar days from the date of issuance of this Approval, the Owner shall submit to the Director a completed Certificate of Requirement which shall include:

- i. 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;
- ii. proof of ownership of the Site;
- iii. 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;
- iv. the legal abstract of the property; and

v. any supporting documents including a registerable description of the Site.

b. Within fifteen (15) calendar days of receiving a Certificate of Requirement authorized by the Director, the Owner shall:

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

18. Within thirty (30) calendar days from the date of establishing a contaminant attenuation zone (CAZ) (overburden and/or bedrock aquifers) in either fee simple or by way of a groundwater easement, the Owner shall submit to the Director a

completed Certificate of Requirement which shall include:

a. If rights are obtained in fee simple, the Owner shall provide:

- i. documentation evidencing ownership of the CAZ obtained in compliance with O.Reg. 232/98, as amended;
- ii. a completed Certificate of Requirement and supporting documents containing a registerable description of the CAZ; and
- iii. 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 CAZ.

b. within fifteen (15) calendar days of receiving a Certificate of Requirement signed or authorized by the Director, the Owner shall:

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

Inspections by the Ministry

19. 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

20. a. Except as authorized in writing by the Director, all records required by this Approval shall be retained at the Site for a minimum of two (2) years from their date of creation.

b. The Owner shall retain all documentation listed in Schedule 1 for as long as this Approval is valid.

c. All monthly summary reports of waste records collected are to be kept at the Site 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.

21. 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.

22. The Owner shall ensure that a copy of this Approval, in its entirety and including all its Notices of Amendment, and documentation listed in Schedule 1, are retained at the Site at all times.

23. 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.

2. SITE OPERATION

Operation

1. The Site shall be operated and maintained at all times including management and disposal of all waste, in accordance with the EPA, Reg. 347, and the conditions of this Approval. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.

Signs

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

- a. the name of the Site and Owner;
- b. the number of the Approval;
- c. the name of the Operator;

- d. the normal hours of operation;
- e. the Site is not open for public;
- f. allowable waste for disposal- lightly contaminated and surplus soil;
- g. the telephone number to which complaints may be directed;
- h. a warning against unauthorized access;
- i. a twenty-four (24) hour emergency telephone number (if different from above); and
- j. a warning against dumping outside the Site.

Vermin, Vectors, Dust, Litter, Odour, Noise and Traffic

3. The Site shall be operated and maintained such that the vermin, vectors, dust, litter, odour, noise and traffic do not create a nuisance.

4. A dust suppressant shall be applied to the on-site roads, when dust becomes a problem during the dry periods of the year.

Burning Waste Prohibited

5. Burning of waste at the Site is prohibited.

Site Access

6. Waste shall only be accepted Monday to Saturday from 7:00 a.m. to 6:00 p.m.

7. 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.

8. With the prior written approval from the District Manager, the time periods may be extended to accommodate seasonal or unusual quantities of waste.

Site Security

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

10. 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 and the Site shall be secured against access by unauthorized persons.

3. EMPLOYEE TRAINING

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- 1. A training plan for all employees that operate any aspect of the Site shall be developed and implemented by the Owner or the Operator. Only Trained Personnel shall operate any aspect of the Site or carry out any activity required under this Approval.
- 2. The Owner/Operator shall ensure that the Site Supervisor and/or designated alternative person (s) have been adequately trained with respect to the following procedures without limitations:

- a. conditions and Schedules of this Approval;
- b. the operation and maintenance of this Site;
- c. relevant waste management regulations and legislation;
- d. Environmental conditions and concerns related to waste handling operations at the Site;
- e. Occupational health and safety activities pertaining to the workplace and waste handling operations at the Site.

4. COMPLAINTS RESPONSE PROCEDURE

1. If at any time, the Owner/ Operator receives complaints regarding the operation of the Site, the Owner shall respond to these complaints according to the following procedure:

- a. The Owner/ Operator 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/ Operator, 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 Owner/ Operator shall complete and 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 recurrence of similar incidents.

2. The Owner/ Operator shall designate a person to receive any complaints and to respond with a written notice of action as soon as possible. The Owner/ Operator shall post site complaints procedure at site entrance. All complaints and the Owner/ Operator's actions taken to remedy the complaints must be summarized in the Annual Report.

5. EMERGENCY RESPONSE

1. All Spills as defined in the EPA shall be immediately reported to the **Ministry's Spills Action Centre at 1-800-268-6060** and shall be recorded in the log book as to the nature of the emergency situation, and the action taken for clean-up, correction and prevention of future occurrences.
2. In addition, the Owner shall submit, to the District Manager a written report within three (3) 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. INSPECTIONS, RECORD KEEPING AND REPORTING

Daily Log Book

1. A daily log shall be maintained in written or electronic format and shall include the following information:
 - a. the type, date and time of arrival, hauler, and quantity (tonnes) of all contaminated and surplus soil received at the Site;

- b. the area of the Site in which disposal operations are taking place;
- c. a record of litter collection activities and the application of any dust suppressants;
- d. a record of the daily inspections; 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.

2. Any information requested by the Director or a Provincial Officer concerning the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval, shall be provided to the Ministry, upon request.

Daily Inspections and Log Book

3. An inspection of the entire Site and all equipment on the Site shall be conducted each day the Site is in operation.

Inspections shall include as a minimum, but not limited to the following:

- a. the Site is secure;
- b. the operation of the Site is not causing any nuisances;
- c. the operation of the Site is not causing any adverse effects on the environment and that the Site is being operated in compliance with this Approval;
- d. inspection of the condition of and maintenance of the sediment and erosion control measures including the runoff control berms. In addition to the inspections done on the days the site is in operation, these should be inspected in

advance of precipitation/melt events and following precipitation/melt events;
e. any observed ineffectiveness of the control measures;
f. condition of the temporary sedimentation basins;
g. photo documentation of the conditions;
should also be included in the inspections.

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

5. A record of the inspections shall be kept in a daily log book that includes but not limited to the following:

a. the name and signature of the Trained Personnel that conducted the inspection;
b. the date and time of the inspection;
c. the list of any deficiencies discovered;
d. photo documentation of the conditions of the sediment and erosion control measures, runoff control berms, condition of the temporary sedimentation basins;
e. any observed ineffectiveness of the control measures;
f. condition of the temporary sedimentation basins;
g. the recommendations for mitigation actions including repairs and/or replacement of the control measures; and
h. the date, time and description of actions taken.

6. A record shall be kept in the daily log book of all refusals of soil shipments, the reason(s) for refusal, and the origin of the soil, if known.

7. The Owner shall submit a report monthly to the District Manager no later than 10th of the month following the month being reported on. The monthly report shall include but not limited to the following:

- a. details of the rolling average concentration for soil parameters;
- b. details of the sediment and erosion control measures outlined in Section 4 of the Design and Operations Report in Item 25 of Schedule 1;
- c. results of the surface water quality runoff monitoring required by Schedule 2 along with a figure illustrating the sampling locations;
- d. results of the surface water quality monitoring required by Schedule 5 for the location SW14;
- e. summary of the maintenance and repair recommendations from the Trained Personnel inspecting the soil and erosion control measures for the purposes of protecting the downgradient wetland. This summary should also include the recommendations from the Trained Personnel inspecting the temporary sedimentation basins and the runoff control berms;
- f. an assessment of the performance of the excess soil runoff control berms to contain runoff events from the 1:10 year storm event;
- g. daily precipitation amounts and temperature conditions;
- h. documentation of when excess soil grading and runoff flow directions on the west portion of the landfill change from easterly to north/south/west;

- h. total volume of surplus soil disposed of at the Site and a statement if the project is on schedule; and
- i. any other information the District Manager requests from time to time.

Annual Report

8. A written report on the development, operation and monitoring of the Site, shall be completed annually (Annual Report). The Annual Report shall be submitted to the District Manager, by May 31st of the year following the period being reported upon.

9. The Owner/Operator shall prepare and submit an Annual Report to the Director by June 1st, of the year following the calendar year covered by the report which shall include as a minimum, but not limited to the following:

- a. a survey of the Landfill Site waste disposal area conducted every three years and a map illustrating existing contours;
- b. a summary of the total annual quantities of soil received on a quarterly basis for the Site;
- c. a drawing(s) indicating all groundwater and surface water monitoring locations;
- d. tables outlining monitoring locations, analytical parameters sampled and the frequency of sampling;
- e. an interpretation of the surface water, groundwater and leachate monitoring data; a review of the adequacy of the monitoring programs; provide conclusions and recommendations for changes made in the monitoring programs;

- f. an assessment of the groundwater quality as it relates to condition 9.2;
- g. an assessment of the surface water quality with respect to the PWQO/Guidelines;
- h. an update of any changes made in the operations, equipment, or procedures at the Site and Facility and operating difficulties encountered;
- i. drawings showing the areas of fill, buffer areas, the most recent landfill contours, percentages of available space utilized, and an estimate of the remaining disposal capacity;
- j. a summary discussion of soil placement and erosion protection;
- k. photo documentation of the conditions of the sediment and erosion control measures, runoff control berms, condition of the temporary sedimentation basins;
- l. a statement of compliance with all the conditions with respect to the inspection and reporting requirements as indicated in the Approval;
- m. a summary of any complaints made regarding the landfill Site operations and response from the Owner/Operator and the necessary actions taken to address these complaints;
- n. recommendations with respect to any proposed changes made in the operation and monitoring programs for the Site; and
- o. proposed changes made in the operation and monitoring program for the Site shall be subject to the approval of the Director.

7. LANDFILL DESIGN AND DEVELOPMENT

Approved Waste Types

1. Only municipal waste as defined under Reg. 347 being solid non-hazardous shall be accepted at the Site for landfilling. As of the date of this Approval, only lightly contaminated and surplus soils shall be deposited at the Site subject to the conditions of this Approval.
2. The Owner shall develop and implement a program to inspect waste to ensure that the waste received at the Site is of a type approved for acceptance under this Approval.
3. The Owner shall ensure that all loads of waste are properly inspected by Trained Personnel prior to acceptance at the Site and that the waste vehicles are directed to the appropriate areas for disposal or transfer of the waste. The Owner shall notify the District Manager, in writing, of load rejections at the Site within one (1) business day from their occurrence.

Capacity

4. The Owner shall only accept and deposit waste at the site as long as the total site capacity for waste and waste cover does not exceed 1,800,000 cubic metres, and there is available capacity as defined by the final waste contours for the Site approved by the Director, in the Design and Operations Report listed as Items 22 and 25 in Schedule 1.

Service Area

5. Only waste that is generated within the boundaries of the City of Ottawa may be accepted at the Site.

Major Works

6. For the purposes of this Approval the following are Major Works:

- a. leachate management system;
- b. storm water management system;
- c. gas management system; and
- d. low permeability final cover.

7. A final detailed design shall be prepared for each Major Work to be constructed at the Site consistent with the conceptual

design of the Site as presented in the Supporting Documentation listed in Schedule 1. The final detailed design of each Major Work shall be submitted to the Director, copied to the District Manager.

8. The final detailed design of each Major Work shall include the following:

- a. design drawings and specifications;
- b. a detailed quality assurance / quality control (QA/QC) program for construction of the major work, including necessary precautions to avoid disturbance to the underlying soils; and
- c. details on the monitoring, maintenance, repair and replacement of the engineered components of the major work, if any.

9. Any design optimization or modification that is inconsistent with the conceptual design shall be clearly identified, along with an explanation of the reasons for the change.

10. No construction of a Major Work shall commence prior to the Director approving, in writing, the final detailed design of that Major Work. Each major work shall be constructed in accordance with the approved final detailed design and the QA/QC procedures shall be implemented as approved by the Director.

11. As-built drawings for all Major Works shall be retained on site and made available to Ministry staff for inspection.

8. CONTAMINATED AND SURPLUS SOIL DISPOSAL

1. The Owner shall ensure the quality of the contaminated and surplus soil accepted at the Site for disposal is in accordance with Section 3 of the amended Design and Operations Report in Item 25 of Schedule 1.

2. In terms of soil acceptance, incoming soils will be required to be characterized in accordance with O.Reg. 406/19 and the Soil

Rules.

3. The Owner shall place contaminated soil from West to East.
4. The Owner shall ensure runoff from the contaminated soils is directed easterly away from the wetland during the placement of soil on the west portion of the landfill.
5. The Owner shall construct runoff control berms to contain runoff from the area of excess soils placement for the 1:10 year storm event, as per Section 4.1.2, Design and Operations Report in Item 25 of Schedule 1.
6. The Owner shall construct temporary sediment control basis as per Section 4, Design and Operations Report in Item 25 of Schedule 1.

Notification

7. District Manager shall be notified forthwith in any of the following unexpected situations:

- a. runoff berms do not contain the 1 in 10 year storm event or any melt event;
- b. if runoff escapes the control berms and reaches the temporary sedimentation basins and overflow to the wetland is imminent;
- c. failure of any of the preliminary erosion or sediment controls shown on Figure 6 in the Design and Operations Report in Item 25 of Schedule 1 and/or the sediment and erosion control plan approved by the Conservation Authority; and
- d. the notification shall include proposed measures to control and further reduce runoff.

8. The Owner shall complete the following tasks as follows:

- a. Complete contaminated soil placement in west portion of landfill - April 2026;
- b. Construct final cover on west portion of landfill and construct SWM system - December 2026;
- c. Complete contaminated soil placement in east portion of landfill - April 2027; and
- d. Construct final cover on east portion of landfill - December 2027.

9. LANDFILL MONITORING

Landfill Gas

1. The Owner shall ensure that any buildings or structures at the Site contain adequate ventilation systems to relieve any possible landfill gas accumulation to prevent methane concentration reaching the levels within its explosive range.

Routine monitoring for explosive methane gas levels shall be conducted in all buildings or structures at the Site, especially enclosed structures which at times are occupied by people.

Compliance

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

- a. Reasonable Use Guideline B-7 for the protection of the off-site groundwater; and
- b. Provincial Water Quality Objectives included in the July 1994 publication entitled Water Management Policies, Guidelines, Provincial Water Quality Objectives, as amended from time to time or limits set by the Regional Director, for the protection of the surface water at and

off the Site.

Surface Water and Groundwater

3. The Owner shall monitor surface water (including runoff during soil placement) and groundwater in accordance with the monitoring programs outlined in Schedules 2, 3, 4 and 5. The Owner shall install monitoring wells as outlined in Section 5.0 of the D&O Item 25 in Schedule 1 in a timely manner so that no future monitoring event is missed.

4. A certified Professional Geoscientist or Engineer possessing appropriate hydrogeologic training and experience shall execute or directly supervise the execution of the groundwater monitoring and reporting program.

Groundwater Wells and Monitors

5. The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.

6. Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells and the wells shall be properly re-secured.

7. Any groundwater monitoring well included in the on-going monitoring program that is damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.

a. The Owner shall repair or replace any monitoring well which is destroyed or in any way made to be inoperable for sampling such that no more than one regular sampling event is missed.

b. All monitoring wells which are no longer required as part of the groundwater monitoring program, and have been approved by the Director for abandonment, shall be decommissioned by the Owner, as required, in accordance

with Reg. 903, to prevent contamination through the abandoned well. A report on the decommissioning of the well shall be included in the Annual Report for the period during which the well was decommissioned.

Trigger Mechanisms and Contingency Plans

8. a. Trigger mechanisms shall be in accordance with Item 25 in Schedule 1.

b. Contingency plan 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 shall be in accordance with Design and Operations Report in Item 25 of Schedule 1.

c. In addition, the purge well contingency would be implemented if there was no improvement in surface water quality within five to eight years after implementing the remedial action plan.

9. In the event of a confirmed exceedance of a site-specific trigger level relating to 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.

10. If monitoring results, investigative activities and/or trigger mechanisms indicate the need to implement contingency measures, the Owner shall ensure that the following steps are taken:

- a. The Owner shall notify the District Manager, in writing of the need to implement contingency measures, no later than 30 days after confirmation of the exceedances;
- b. Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures shall be prepared and submitted by the Owner to the Director for approval; and
- c. The contingency measures shall be implemented by the Owner upon approval by the Director.

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

Changes to the Monitoring Programs, Trigger Mechanisms and Contingency Plans

12. The Owner may request to make changes to the monitoring program(s), trigger mechanisms and/or contingency plans 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, trigger mechanisms and/or contingency plans, the Owner shall forward a letter identifying the proposed changes and a copy of the correspondences from the District Manager and all other correspondences and responses related to the changes, to the Director requesting the Approval be amended to approve the proposed changes to the environmental monitoring plan, trigger

mechanism and/or contingency plans prior to implementation.

10. CLOSURE PLAN

1. Prior to the date of this Approval, the Owner shall submit to the Director for approval, with a copy to the District Manager, a detailed Site closure plan pertaining to the termination of landfilling operations at this Site, post-closure inspection, maintenance and monitoring, and end use.

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

Schedule 1

Supporting Documentation

1. "Springhill Landfill Site Development and Operation Report, Township of Osgoode, lot Concession 6," prepared by Kostuch Engineering Limited, November, 1992.
2. "Phase 2 Hydrogeological Investigation* Springhill Landfill Site, Township of Osgoode, Ontario," prepared by Golder Associates, dated June 14, 1993.
3. "Revisions to Site Development and Operations Report Springhill Landfill Site," prepared by Golder Associates, dated September 10, 1997.
- 4 "Application to MOE for an Amendment to Provisional Certificate of Approval Number A 461402, Corporation of the Township of Osgoode , Engineering Report File no. 97-1159," prepared by Simmering & Associates and Golder Associates dated December 2, 1997.
- 5 "Correspondence to MOE from Simmering & Associates Ltd and Golder Associates," dated March 2, 1998, addressing current active landfill area of 16.8 hectares and 2.4 inactive landfill area for the approved 19.2 hectares landfill Site.
6. "Correspondence to G. Carpentier, MOE from M..J. E. Sheflin, P.Eng. Environmental and Transportation Commissioner, Regional Municipality of Ottawa-Carleton granting approval to the Township of Osgoode to receive alternative cover material (waste) from outside the existing service area," dated April 14, 1998.

7. "Tomlinson Environmental Services Ltd. Application to MOE for a Construction and Demolition Waste Processing Facility Lot 31, Concession 6, Township of Osgoode, Engineering Report," prepared by Simmering & Associates Ltd dated January, 1998.
8. "Correspondence to G. Carpentier, MOE from The Corporation Of The Township Of Osgoode, application to MOE for Certificate of Approval No. 710140, Tomlinson Environmental Services Ltd. Lot 31 Concession 6, Township of Osgoode," dated February 20, 1998.
9. Application for Provisional Certificate of Approval for a Waste Disposal Site, dated November 22, 2000.
10. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated March 13, 2003 including the following attached information:
 - a. Covering letter dated March 7, 2003 and signed by Dale MacGregor, Safety Director, Tomlinson Limited.
 - b. Drawing entitled "Tomlinson Environmental Services Inc. - New Scale Location and Proposed Entrance" prepared by Golder Associates.
- .
11. Application for Provisional Certificate of Approval for a Waste Disposal Site, dated March 22, 2005, signed by Kenneth Brothers, City of Ottawa, and all the supporting documentation associated with the application, requesting to change the sequence of filling to Phase 1, Phase 2, Phase 4A, Phase 3, Phase 4B and Phase 5.
12. Report on "Hydrogeological Study and Proposed Landfill Base Improvements in Support of an Application to Amend Certificate of Approval No. 461402 Springhill Landfill Site, City of Ottawa, Ontario" dated December 2004 submitted to Tomlinson Environmental Services Inc., and prepared by Golder Associates Ltd.
13. Application for a Provincial Certificate of Approval for a Waste Disposal Site dated February 8, 2005, signed by Kenneth J. Brothers, Director Utility Services, City of Ottawa.
14. Letter from Golder Associates Ltd. dated November 18, 2005 to Mike Heeringa, Senior Environmental Officer, Ministry of the Environment, Ottawa District Office regarding the Surface Water and Groundwater Technical Comments.
15. Letter from Golder Associates Ltd. dated April 3, 2006 to Mike Heeringa, Senior Environmental Officer, Ministry of the Environment, Ottawa District Office regarding the Supplemental Surface Water and Groundwater Technical Comments and Compliance Inspection Report, Springhill Landfill.
16. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated July 25, 2007 signed by Kenneth J. Brothers and all the supporting documentation included with the application.
17. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated

September 10, 2007 signed by Marilyn Harold and all the supporting documentation included with the application.

18. Application for a Provisional Certificate of Approval for a Waste Disposal Site dated June 10, 2008 signed by Albert Shamess and the supporting documentation included with the application.

19 Report titled "Application to Amend Certificate of Approval No. A461402 Processing of Existing On-site Waste Materials Springhill Landfill Site, City of Ottawa, Ontario" dated June 2008 and prepared by Golder Associates Ltd.

20. Report entitled "Assessment Study - Construction & Demolition Waste Processing Facility, Springhill Landfill Site, Geography Township of Osgoode, Ottawa, Ontario" Dated December 2009 prepared by Golder Associates.

21. Letter dated July 12, 2010 addressed to Rick Li, Ministry of the Environment from M. K. Farnel, Golder Associates providing response to MOE comments on the relocation of the C & D Facility.

22. Report entitled "Design and Operations Report, Springhill Landfill" dated April 2013 prepared by Golder Associates.

23 Report entitled "Hydrogeological Investigation between Highway 31 and the Eastern Limit of the Licensed Fill Area, Groundwater Trigger Mechanism and Site Operations, Springhill landfill Landfill Site, Geographic Township of Osgoode, City of Ottawa, Ontario" dated 2001 prepared by Golder Associates.

24. Environmental Compliance Approval Application dated March 21, 2024 and signed Heidi Scott, Program Manager - Compliance, Maintenance, and Operational Planning, City of Ottawa, including the attached supporting documentation.

25. Report titled "Revised Design and Operations for Completion of Landfilling, Springhill Landfill, Ottawa, ON" and dated August 2024, prepared by WSP Canada Inc.

Schedule 2

Contaminated and Surplus Soil Surface Water Runoff Sampling Program

Table 2.1

Beginning one year prior to planned contaminated and surplus soil import

Frequency	Once during each of spring, summer and fall
Sampling Locations	SW5, SW15 (to be replaced by SW22), SW16, SW23
Sample Type	Grab
Analytical parameters	Routine surface water parameters and in spring and fall events for BTEX, VOCs, PAHs, and F1 to F4 Petroleum Hydrocarbon Fractions

Table 2.2

From the first deposition of soil until the final low permeability cover is installed

Frequency	Within 24 hours following a rainfall precipitation event greater than 15 mm or confirmation during melt events where
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	significant runoff is expected.
Sampling Locations	Up to three locations to be established by a qualified person based on accumulation of sufficient water, as well as SW5 and SW15. Locations to be illustrated on a figure in monthly reporting.
Sample Type	Grab
Analytical parameters	Field measured temperature, pH, conductivity, as well as observations of the contained runoff and observed surface runoff (if any), i.e., sheen, odour, etc. Laboratory analysis for chloride, sodium, ammonia, metals (aluminum (clay-free), total beryllium, total boron, total cadmium, total chromium, total cobalt, total copper, total iron, total lead, total mercury, total molybdenum, total nickel, total silver, total strontium, total thallium, total vanadium, total zinc, total strontium), hardness (calculated from laboratory calcium and magnesium analyses), DOC, TSS, turbidity, COD, potassium, alkalinity, nitrate, sulphate, PAH, PHC and VOC.

Schedule 3
Groundwater Level Monitoring Program

Frequency: Spring (April/May) and Fall* (October/November)

Note: * Well condition survey to be conducted

Groundwater Monitor
3, 4A DEEP 4A SHALLOW, 4B, 5A, 5B, 6A DEEP, 6A SHALLOW, 6B
7A DEEP, 7A SHALLOW , 8, 10 DEEP, 10 SHALLOW, 11 DEEP,
11 SHALLOW, 12 DEEP, 12 SHALLOW, 13 DEEP, 13 SHALLOW
14A-95, 14C-95, 14D-95, 15A-95, 15B-95, 15C-95, 15D-95, 16 -95, 17A-95
17B-95, 17C-95, 18A-96, 18B-96, 18C-96, 19A-96, 19B-96, 19C-96

20A-96, 20B-96, 20C-96, 20D-96, 21A-96, 21B-96, 21C-96, 21D-96
22A-97, 22B-97, 22C-97, 22D-97, 23A-97, 23B-97, 23C-97, 23D-97, 24A-97
24B-97, 24C-97, 24D-97, 26-97, 27-97, 28-97, 29-97, 30-97, 36A-01
36B-01, 37A-14, 37B-14, 37C-14, 39A-01, 39B-01, 39C-01, 40A-01, 40B-01
40C-01, 40D-01, 42-01, 43-01, 44A-06, 44B-06, 44C-06, 45-06, 46A-08
46B-08, 46C-08, 46D-08, 47A-10, 47B-10, 47C-10, 47D-10, 48A-10, 48B-10
48C-10, 48D-10, 49A-10, 49B-10, 49C-10, 49D-10, 50A-11, 50B-11
50C-11, 50D-11, 51-11, 52A-13, 52B-13, 52C-13, 52D-13, 53-13, 54A-13
54B-13, 55A-13, 55B-13, 56A-14, 56B-14, 56C-14, 56D-14, 57-14 58A-14
58B-14, 58C-14, 59-18 and new leachate well through the waste
60A-19, 60B-19, PW4
New well on the north side of the western portion of Phase 3

Schedule 4

Wetland Water Level Monitoring Program

Frequency: during the spring, summer, and fall surface water sampling events

Wetland Water Level Monitoring Locations
SW5, SW9, SW15, SW16, SW14

Note: SW15 to be replaced by SW22 once the northwest stormwater management pond is constructed.

Schedule 5

Groundwater and Surface Water Quality Monitoring Program

Sampling Location	Sampling Location Classification	(Early Spring) High Flow/Spring Melt*	(Spring) April/ May	(Summer) August	(Fall) October/ November	(winter) January

3	TS	BR-s		*S*β¶VH		*S*β¶VH	
4A DEEP	Tn	BR-s		*S*		*S*	
4A SHALLOW	Tn	BR-s		R		R	
4B	Tn	OB-Gt		R		R	
5A	TW	BR-s		*S*β¶VH		*S*β¶VH	
5B	TW	OB-Gt		*S*β¶VH		*S*β¶VH	
6A DEEP	TW	BR-s		*S*β¶VH		*S*β¶VH	
6A SHALLOW	TW	OB-Gt/SaGr				R	
6B	TW	OB-Gt					
7A DEEP	TW	BR-s		*S*β¶VH		*S*β¶VH	
7A SHALLOW	TW	OB-Pt		*S*β¶VH		*S*β¶VH	
8	TS	BR-s				¶V	
10 DEEP	<	BR-s		*S*		*S*	
10 SHALLOW	<	BR-s		*S*		*S*	
11 DEEP	TS	BR-s				*S*	
11 SHALLOW	<	OB-Gt		*S* P		*S* P	
12 DEEP	TS	BR-s				R	
12 SHALLOW	TS	OB-Gt				R	

Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

Sampling Location	Sampling Location Classification	(Early Spring) High Flow/Spring Melt*	(Spring) April/ May	(Summer) August	(Fall) October/ November	(winter) January
13 DEEP	Te	BR-s	R		R	
13 SHALLOW	Te	BR-s	R		R	
14A-95	Tn	BR-is	R		R	
14C-95	Tn	BR-s	R		R	
14D-95	Tn	BR-s	R		R	

15A-95	Tn	BR-id		R		R	
15B-95	Tn	BR-is		R		R	
15C-95	Tn	BR-s		R		R	
15D-95	Tn	BR-s		R		R	
16-95	U	BR-s		*S* β ¶ VH		*S*	
17A-95	Tn	BR-is		R		R	
17B-95	Tn	BR-s		R		R	
17C-95	Tn	BR-s		R		R	
18A-96	TS	BR-s		*S*	*S*	*S*	*S*
18B-96	TS	BR-s		*S*	*S*	*S*	*S*
18C-96	TS	OB-Gt/SiSa		*S*	*S*	*S*	*S*
19A-96	TW	BR-s		*S*	*S*	*S*	*S*
19B-96	TW	BR-s		R		R	
19C-96	TW	OB-Gt		R		R	

Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

Sampling Location	Sampling Location Classification		(Early Spring) High Flow/Spring Melt*	(Spring) April/ May	(Summer) August	(Fall) October/ November	(winter) January
20A-96	Tn	BR-id		R		R	
20B-96	Tn	BR-is		R		R	
20C-96	Tn	BR-s		R		R	
20D-96	Tn	BR-s		R		R	
21A-96	Tn	BR-id		R		R	
21B-96	Tn	BR-is		R		R	
21C-96	Tn	BR-s		R		R	
21D-96	Tn	BR-s		R		R	
22A-97	Tn	BR-d		*S*		*S*	
22B-97	Tn	BR-id		*S*		*S*	
22C-97	Tn	BR-s		*S*		*S*	
22D-97	Tn	BR-s		*S*		*S*	
23A-97	Tn	BR-id		*S*		*S*	
23B-97	Tn	BR-is		*S*		*S*	
23C-97	Tn	BR-s		*S*		*S*	
23D-97	Tn	BR-s		*S*		*S*	
24A-97	Tn	BR-d		R		R	

24B-97	tn	BR-id		*S*		*S*	
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Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

Sampling Location	Sampling Location Classification		(Early Spring) High Flow/Spring Melt*	(Spring) April/ May	(Summer) August	(Fall) October/ November	(winter) January
24C-97	tn	BR-s		R		R	
24D-97	tn	BR-s		R		R	
26-97	tn	OB-Gt		*S*		*S*	
27-97	tn	OB-Gt		*S*		*S*	
28-97	tn	OB-Gt		R		R	
29-97	tn	OB-Gt		R		R	
30-97	tn	OB-Gt		R		R	
36A-01	tw	BR-s		R		R	
36B-01	tw	OB-Gt		R		R	
37A-14	te	BR-s		R		R	
37B-14	te	BR-s		R		R	
37C-14	te	OB-Gt		R		R	
39A-01	te	BR-is		R		R	
39B-01	te	BR-s		R		R	
39C-01	te	BR-s		R		R	
40A-01	tn	BR-id		*S*		*S*	
40B-01	tn	BR-is		*S*		*S*	
40C-01	tn	BR-s		*S*		*S*	

Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

Sampling Location	Sampling Location Classification		(Early Spring) High Flow/Spring Melt*	(Spring) April/ May	(Summer) August	(Fall) October/ November	(winter) January
40D-01	tn	BR-s		*S*		*S*	
42-01	te	OB-Gt		R		R	
43-01	tn	OB-Gt		*S*		*S*	
44A-06	tn	BR-id		*S*		*S*	
44B-06	tn	BR-s		*S*		*S*	
44C-06	tn	BR-s		*S*		*S*	
45-06	tn	OB-Gt		*S*		*S*	

46A-08	tn	BR-id		*S*		*S*	
46B-08	tn	BR-is		*S*		*S*	
46C-08	tn	BR-s		*S*		*S*	
46D-08	tn	BR-s		*S*		*S*	
47A-10	te	BR-d		R		R	
47B-10	te	BR-id		R		R	
47C-10	te	BR-is		R		R	
47D-10	te	BR-s		R		R	
48A-10	te	BR-id		R		R	
48B-10	te	BR-id		R		R	
48C-10	te	BR-is		R		R	

Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

Sampling Location	Sampling Location Classification		(Early Spring) High Flow/Spring Melt*	(Spring) April/ May	(Summer) August	(Fall) October/ November	(winter) January
48D-10	te	BR-s		R		R	
49A-10	te	BR-id		R		R	
49B-10	te	BR-id		R		R	
49C-10	te	BR-is		R		R	
49D-10	te	BR-s		R		R	
50A-11	tn	BR-id		*S*		*S*	
50B-11	tn	BR-is		*S*		*S*	
50C-11	tn	BR-is		*S*		*S*	
50D-11	tn	BR-s		*S*		*S*	
51-11	tn	OB-Gt		*S*	*S*	*S*	*S*
52A-13	tw	BR-d		*S*		*S*	
52B-13	tw	BR-id		*S*		*S*	
52C-13	tw	BR-is		*S*		*S*	
52D-13	tw	BR-s		*S*		*S*	
53-13	tw	OB		*S*		*S*	
54A-13	tw	BR-d		*S*		*S*	
54B-13	tw	BR-id		*S*		*S*	
55A-13	tw	OB		*S*		*S*	

Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

Sampling	Sampling	(Early	(Spring)	(Summer)	(Fall)	(winter)
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Location	Location Classification		Spring) High Flow/Spring Melt*	April/ May	August	October/ November	January
55B-13	TW	OB		*S*		*S*	
56A-14	TW	BR-d		*S*	*S*	*S*	*S*
56B-14	TW	BR-id		*S*	*S*	*S*	*S*
56C-14	TW	BR-is		*S*	*S*	*S*	*S*
56D-14	TW	BR-s		*S*	*S*	*S*	*S*
57-14	TW	OB		*S*	*S*	*S*	*S*
58A-14	TS	BR-s		*S*	*S*	*S*	*S*
58B-14	TS	BR-s		*S*	*S*	*S*	*S*
58C-14	TS	OB-Gt		*S*	*S*	*S*	*S*
new leachate well	U	Waste or BR-s if possible		*S* β ¶ VH		*S*	
60A-19	TW	BR-s		*S*	*S*	*S*	*S*
60B-19	TW	OB		*S* P	*S*	*S* P	*S*
61-22 (downgradient of BH58-14)				To be sampled for *S* after installation			
62-22 (downgradient of BH12)				To be sampled for *S* after installation			
New monitoring well north of Phase 3				*S* β ¶ VH		*S* β ¶ VH	
PW2	‡	-----		R		R	
PW4	‡ <	BR-d		*S*		*S*	
SW5	§	-----	R _{SW}	R _{SW} β ¶ VH	R _{SW}	R _{SW} β ¶ VH	
SW6	§	-----	R _{SW}	R _{SW}	R _{SW}	R _{SW}	
SW7	§	-----	R _{SW}	R _{SW}	R _{SW}	R _{SW}	
SW8	§	-----					
SW9	§	-----	R _{SW}	R _{SW}	R _{SW}	R _{SW}	
SW10	§	-----	R _{SW}	R _{SW}	R _{SW}	R _{SW}	

Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

Sampling Location	Sampling Location Classification		(Early Spring) High Flow/Spring Melt*	(Spring) April/ May	(Summer) August	(Fall) October/ November	(winter) January
SW11	§	-----	R _{SW}	R _{SW}	R _{SW}	R _{SW}	
SW12	§	-----	R _{SW}	R _{SW}	R _{SW}	R _{SW}	

SW13	§	-----	R _{sw}	R _{sw}	R _{sw}	R _{sw}	
SW14	§	-----	R _{sw}	R _{sw}	R _{sw}	R _{sw}	
SW15***	§	-----	R _{sw}	R _{sw} β ¶ VHT	R _{sw}	R _{sw} β ¶ VHT	
SW16	§	-----	R _{sw}	R _{sw} β ¶ VHT	R _{sw}	R _{sw} β ¶ VHT	
SW17	§	-----					
“SEEP1”	§	-----	R _{sw}	R _{sw}	R _{sw}	R _{sw}	
Treed area north of path (SW18)	§	-----	R _{sw}	R _{sw}	R _{sw}	R _{sw}	
Upstream of SW12 (SW19)	§	-----	R _{sw}	R _{sw}	R _{sw}	R _{sw}	
Downstream of SW13 (SW20)**	§	-----	Replaced by SW21				
Downstream of SW13 (SW21)	§	-----	R _{sw}	R _{sw} P	R _{sw}	R _{sw} P	
SW22***	§	-----	R _{sw}	R _{sw} β ¶ VHT	R _{sw}	R _{sw} β ¶ VHT	
SW23	§	-----	R _{sw}	R _{sw} β ¶ VH	R _{sw}	R _{sw} β ¶ VH	

Notes:

‡ Private Well

§ Surface Water

< Background Groundwater Quality Monitor

u Leachate Quality Monitor

τ Impact Evaluation Monitor (n – North Part, w – West Part, s – South Part, e – East Part)

OB - Overburden Pt- Peat SiSa - Silty Sand

SaGr - Sand and Gravel Gt- Glacial Till BR - Bedrock:

Schedule 5 Continued....

Groundwater and Surface Water Quality Monitoring Program

s - Shallow Bedrock Zone

is - Intermediate-Shallow Zone

id - Intermediate-Deep Bedrock Zone

d - Deep Bedrock Zone

S **Surveillance Groundwater Parameters** includes calcium, magnesium, sodium, potassium, aluminum, barium, beryllium, boron, cadmium, chromium, cobalt, copper,

iron, lead, manganese, molybdenum, nickel, total phosphorous, dissolved reactive phosphorus, silicon, silver, strontium, thallium, tin, titanium, vanadium, zinc, alkalinity, ammonia, COD, TDS, chloride, sulphate, nitrate, phenols, hardness (calculated from laboratory calcium and magnesium analyses)

R Routine Groundwater Parameters include the following site-specific Leachate Indicator Parameters: ammonia, chloride, hardness (calculated from laboratory calcium and magnesium analyses), sodium, potassium, barium, boron, iron, manganese, strontium, sulphate, alkalinity, COD and TDS

R_{SW} Routine Surface Water Parameters include the following parameters: calcium, magnesium, sodium, potassium, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, nickel, total phosphorous, silicon, silver, strontium, thallium, tin, titanium, vanadium, zinc, aluminum, mercury, alkalinity, BOD, TDS, chloride, nitrate, nitrite, sulphate, TSS, TKN, ammonia (unionized ammonia calculated based on laboratory ammonia and field pH and temperature), COD, DOC, phenols, hardness (calculated from laboratory calcium and magnesium analyses)

¶ Water sample collected and submitted for PHC F1 to F4 analyses

β Water sampled collected and submitted for BTEX analyses

V Water sample collected and submitted for full volatile organic compound analyses (by US EPA Method 624)

P Water sample collected and submitted for PFAS

H Water sample collected and submitted for PAH

Temperature, pH and conductivity to be measured on all samples in the field (DO also measured on surface water samples only)

T Surface water sample collected and submitted for sublethal chronic toxicity: 7 d IC25 survival and reproduction using *Ceriodaphnia dubia* and 7 d IC25 survival and growth using fathead minnows. One late spring session and one early fall session

* If the April sampling event occurs during a time of high flow/spring melt then the high flow/spring melt sampling event can be removed from the program.

** Where the McRostie Municipal Drain intersects the road allowance for Devereaux Road requires permission of adjacent landowner

*** SW15 will be monitored until such time the northwest stormwater management pond is constructed. SW22 will replace SW15 once the northwest stormwater management pond is constructed.

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

GENERAL

- The reason for conditions 1.1, 1.2, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11, 1.12, 1.20, 1.21 and 1.22 is to clarify the legal rights and responsibilities of the Owner and Operator under this Approval.

- The reasons for conditions 1.3, 1.4 and 1.5 are 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.

- The reasons for condition 1.13 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.
- The reasons for condition 1.14 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.
- The reason for condition 1.15 is to ensure that the successor is aware of its legal responsibilities.
- The reasons for conditions 1.16, 1.17 and 1.18 are that the Part II.1 Director is an individual with authority pursuant to Section 197 of the Environmental Protection Act to require registration on 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.
- The reason for condition 1.19 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.
- Condition 1.23 has been included in order to clarify what information may be subject to the Freedom of Information Act.

SITE OPERATION

- The reasons for conditions 2.1, 2.3, 2.4, 6.3 and 6.4 are to ensure that the Site is operated, inspected and maintained in an environmentally acceptable manner and does not result in a hazard or nuisance to the natural environment or any person.
- The reason for condition 2.2 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.
- The reasons for condition 2.5 are open burning of municipal waste is unacceptable because of concerns with air emissions, smoke and other nuisance effects, and the potential fire hazard.
- The reasons for conditions 2.6, 2.7 and 2.8 are to specify the hours of operation for the landfill site and a mechanism for amendment of the hours of operation, as required.
- The reasons for condition 2.9 and 2.10 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.

EMPLOYEE TRAINING

- The reason for conditions 3.1 and 3.2 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.

COMPLAINTS RESPONSE PROCEDURE

- The reason for condition 4.1 and 4.2 is to ensure that any complaints regarding landfill operations at this Site are responded to in a timely and efficient manner.

EMERGENCY RESPONSE

- Conditions 5.1 and 5.2 are included to ensure that emergency situations are reported to the Ministry to ensure public health and safety and environmental protection.
- Conditions 5.3, 5.4 and 5.5 are included to ensure that 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.

INSPECTIONS, RECORD KEEPING AND REPORTING

- The reason for conditions 6.1 and 6.2 is to ensure that accurate waste records are maintained to ensure compliance with the conditions in this Approval (such as fill rate, site capacity, record keeping, annual reporting, and financial assurance requirements), the EPA and its regulations.
- The reason for conditions 6.5 and 6.6 is to ensure that detailed records of Site inspections are recorded and maintained for inspection and information purposes.
- The reasons for conditions 6.8 and 6.9 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.

LANDFILL DESIGN AND DEVELOPMENT

- The reason for conditions 7.1 to 7.5 inclusive is to specify the approved areas from which waste may be accepted at the Site and the types and amounts of waste that may be accepted for disposal at the Site, based on the Owner's application and supporting documentation.
- The reason for conditions 7.6 to 7.10 is to ensure that the Site is designed, constructed and operated in an environmentally acceptable manner, based on the conceptual design and operations for the Site.
- The reason for condition 7.11 is to ensure the availability of as-built drawings for inspection and information purposes.

CONTAMINATED AND SURPLUS SOIL DISPOSAL

- Reasons for condition 8 is to ensure that the Owner carry out surplus soil disposal is carried out and completed in a timely manner, 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.

LANDFILL MONITORING

- Reasons for condition 9.1 are to ensure that landfill gas is monitored and all buildings at the Site are free of any landfill gas accumulation, which due to a methane gas component may be explosive and thus create a danger to any persons at the Site.
- Condition 8.2 is included to provide the groundwater and surface water limits to prevent water pollution at the Site.
- Conditions 8.3 and 8.4 are included to require the Owner to demonstrate that the Site

is performing as designed and the impacts on the natural environment are acceptable.

Regular monitoring allows for the analysis of trends over time and ensures that there is an early warning of potential problems so that any necessary remedial/contingency action can be taken.

- Conditions 8.5, 8.6 and 8.7 are included to ensure the integrity of the groundwater monitoring network so that accurate monitoring results are achieved, and the natural environment is protected.

- Conditions 8.8 to 8.11 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 point.

- Conditions 8.12 and 8.13 are included to streamline the approval of the changes to the monitoring plans and trigger mechanisms and contingency plans.

CLOSURE PLAN

- The reasons for condition 10 are to ensure that final closure of the Site is completed in a timely manner and 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.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A461402 issued on August 23, 2013 as amended.

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 1st day of November,
2024

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

RM/
c: District Manager, MECP Ottawa
Trish Edmond, WSP Canada Inc.