

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2034-C62J5K
Issue Date: June 1, 2022

Maple Grove Resort Inc.
1488 Gore Rd Concession 11 W
Hamilton, Ontario
N0B 2J0

Site Location: 1488 Gore Road
Concession 11 W
City of Hamilton, Ontario

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:

expansion/upgrade, usage and operation of non-municipal sewage works, for the treatment and subsurface disposal of sanitary sewage Maple Grove RV Resort located at 1488 Gore Road, in the City of Hamilton, consisting of the following:

Details of Service Area

- Type of occupancy: seasonal campground
- Type and number of units: a total of 393 trailer sites (115 existing sites and 278 proposed new sites), a residence, an office/cottage, a laundry facility and a swimming pool facility

Design Capacity Upon Completion of Expansion/Upgrade of All Sewage Systems

- Total Rated Capacity: 123,225 litres per day

PROPOSED WORKS (Expansion and Upgrade)

Ashwood Area Sewage Treatment and Subsurface Disposal System (110 Trailer Sites)

sewage treatment and subsurface disposal System #1, serving 22 trailer sites at Area A1, 29 trailer sites at Area A2, 31 trailer site from Area A3 and 28 trailer sites at Area A4, having a total Rated Capacity of 33,000 litres

per day, consisting of the following:

- four (4) 18,000 litre septic tanks, operating in two (2) parallel groups, having a total volume capacity of 72,000 litres and equipped with effluent filter for each group, discharging into a pump chamber;
- one (1) pump chamber, equipped with two (2) alternating pumps each having a rated capacity of 250 litres per minute at a total dynamic head (TDH) of 6 metres, discharging into a Waterloo Biofilter Level IV treatment unit;
- one (1) packaged Waterloo Biofilter Level IV treatment unit, generally consisting of three (3) basket tanks operating in parallel, each filled with 21 cubic metres of biofilter media, a biofilter effluent recirculation pump, and final effluent duplex pumps, discharging into a pump chamber;
- one (1) pump chamber, equipped with two (2) alternating pumps, discharging into four (4) Type A Dispersal Beds at a dosing rate of 4,500 litres per dose; and
- four (4) Type A Dispersal Beds, each consisting of a 275 millimetre thick stone layer and a 300 millimetre thick imported sand layer, with the stone layer having an area of 550 square metres protected with a permeable Geotextile fabric and equipped with sixty-nine (69) runs of 5 metre long 75 millimetre diameter distribution pipes, and the sand layer having a percolation time of 6 to 10 minutes per centimetre and extended 15 metre with a minimum thickness of 250 millimetres and 2,200 square metres of loading area, complete with a topsoil cover with minimum of thickness of 300 millimetres and a contact area of 550 square metres.

Ashwood/Birchwood/Driftwood Area Sewage Treatment and Subsurface Disposal System (156 Trailer Sites)

sewage treatment and subsurface disposal System #2, serving 44 trailer sites at Area A5, 52 trailer sites at Area B, and 60 trailer sites at Area D, having a total Rated Capacity of 46,800 litres per day, consisting of the following:

- four (4) 27,500 litre septic tanks, operating in two (2) parallel groups, having a total volume capacity of 110,000 litres and each equipped with an effluent filter, discharging into a pump chamber;
- one (1) pump chamber, equipped with two (2) alternating pumps each having a rated capacity of 350 litres per minute at a TDH of 6 metres, discharging into a Waterloo Biofilter Level IV treatment unit;
- one (1) packaged Waterloo Biofilter Level IV treatment unit, generally consisting of four (4) basket tanks operating in parallel, each filled with 31 cubic metres of biofilter media, a biofilter effluent recirculation pump, and biofilter effluent duplex pumps, discharging into an enhanced nitrogen reduction system;
- one (1) an enhanced nitrogen reduction system - packaged Waterloo Biofilter WaterNO_x-LS treatment unit, generally consisting of two (2) 35,000 litre tanks each filled with de-nitrification media, followed by one (1) 50,000 litre Waterloo Biofilter polishing tank filled with 31 cubic metres of biofilter media

and final effluent duplex pumps, discharging into a pump chamber;

- one (1) pump chamber, equipped with two (2) alternating pumps, discharging into a Type A Dispersal Bed at a dosing rate of 4,100 litres per dose; and
- one (1) Type A Dispersal Bed, consisting of a 275 millimetre thick stone layer and a 300 millimetre thick imported sand layer, with the stone layer having an area of 1,248 square metres protected with a permeable Geotextile fabric and equipped with forty-eight (48) runs of 26 metre long 75 millimetre diameter distribution pipes, and the sand layer having a percolation time of 6 to 10 minutes per centimetre and extended 15 metre with a minimum thickness of 250 millimetres and 2,340 square metres of loading area, complete with a topsoil cover with minimum of thickness of 300 millimetres and a contact area of 1,482 square metres.

Cedarwood Area Sewage Treatment and Subsurface Disposal System (38 Trailer Sites)

sewage treatment and subsurface disposal System #3, serving 38 trailer sites at Area C, having a Rated Capacity of 11,400 litres per day, consisting of the following:

- two (2) 13,500 litre septic tanks operating in series, having a volume capacity of 27,000 litres and equipped with an effluent filter, discharging into a pump chamber;
- one (1) pump chamber, equipped with two (2) alternating pumps each having a rated capacity of 110 litres per minute at a total dynamic head (TDH) of 9 metres, discharging into Waterloo Biofilter Level IV treatment unit;
- one (1) packaged Waterloo Biofilter Level IV treatment unit, generally consisting of two (2) basket tanks operating in parallel, each filled with 21 cubic metres of cubic metres of biofilter media, a biofilter effluent recirculation pump, and biofilter effluent duplex pumps, discharging into an enhanced nitrogen reduction system;
- one (1) an enhanced nitrogen reduction system - packaged Waterloo Biofilter WaterNO_x-LS treatment unit, generally consisting of one (1) 18,500 litre tank filled with de-nitrification media, followed by one (1) 35,000 litre Waterloo Biofilter polishing tank filled with 11 cubic metres of biofilter media and final effluent duplex pumps, discharging into discharging into a pump chamber;
- one (1) pump chamber, equipped with two (2) alternating pumps, discharging into a Type A Dispersal Bed at a dosing rate of 1,000 litres per dose; and
- one (1) Type A Dispersal Bed, consisting of a 275 millimetre thick stone layer and a 300 millimetre thick imported sand layer, with the stone layer having an area of 300 square metres protected with a permeable Geotextile fabric and equipped with fifteen (15) runs of 20 metre long 75 millimetre diameter distribution pipes, and the sand layer having a percolation time of 6 to 10 minutes per centimetre and extended 15 metre with a minimum thickness of 250 millimetres and 665 square metres of loading area, complete with a topsoil cover with minimum of thickness of 300 millimetres and a contact area of 380

square metres.

Maplewood Area Sewage Treatment and Subsurface Disposal System (89 Trailer Sites)

sewage treatment and subsurface disposal System #4, serving 89 trailer sites at Area M, having a Rated Capacity of 26,700 litres per day, consisting of the following:

- three (3) 22,500 litre septic tanks, operating in series, having a total volume capacity of 67,500 litres and equipped with an effluent filter, discharging into a pump chamber;
- one (1) pump chamber, equipped with two (2) alternating pumps each having a rated capacity of 220 litres per minute at a total dynamic head (TDH) of 6 metres, discharging into a Waterloo Biofilter Level IV treatment unit;
- one (1) packaged Waterloo Biofilter Level IV treatment unit, generally consisting of three (3) basket tanks operating in parallel, each filled with 29 cubic metres of biofilter media, a biofilter effluent recirculation pump, and biofilter effluent duplex pumps, discharging into an enhanced nitrogen reduction system;
- one (1) an enhanced nitrogen reduction system - packaged Waterloo Biofilter WaterNO_x-LS treatment unit, generally consisting of one (1) 35,000 litre tank filled with de-nitrification media, followed by one (1) 27,500 litre Waterloo Biofilter polishing tank filled with 21 cubic metres of biofilter media and final effluent duplex pumps, discharging into a pump chamber;
- one (1) pump chamber, equipped with two (2) alternating pumps, discharging into Type A Dispersal Bed at a dosing rate of 2,000 litres per dose; and;
- one (1) Type A Dispersal Bed, consisting of a 275 millimetre thick stone layer and a 300 millimetre thick imported sand layer, with the stone layer having an area of 600 square metres protected with a permeable Geotextile fabric and equipped with thirty (30) runs of 20 metre long 75 millimetre diameter distribution pipes, and the sand layer having a percolation time of 6 to 10 minutes per centimetre and extended 15 metre with a minimum thickness of 250 millimetres and 1,365 square metres of loading area, complete with a topsoil cover with minimum of thickness of 300 millimetres and a contact area of 780 square metres.

Septic System Serving Residence (Rate Capacity - 2, 275 litres per day)

- one (1) two-compartment septic tank with a volume of approximately 4,550 litres, discharging to a sub-surface leaching bed consisting of 6 runs of 24 metres long distribution pipes, 75 millimetre diameter, with a total length of 144 metres, installed within clear stone trenches overlying native soil.

Including all other controls, electrical equipment, instrumentation, piping, meter and meter chamber, valves and appurtenances essential for the proper operation of the aforementioned Proposed Works.

EXISTING WORKS

Septic System 2 Serving Office/Cottage (Rated Capacity - 550 litres per day)

- one (1) 3,800 litre two-compartment septic tank, discharging into a subsurface leaching bed consisting of 4 runs of 14 metres long distribution pipes, 75 millimetre diameter, with a total length of 56 metres, installed within clear stone trenches overlying native soil.

Septic System 4 Serving Pool/Laundry Facility (Rated Capacity - 2,500 litres per day)

- one (1) 11,700 litre two-compartment septic tank, discharging into a leaching bed consisting of 6 runs of 28 metres long distribution pipes, 75 millimetre diameter, with a total length of 168 metres, installed within clear stone trenches overlying native soil.

Including all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works.

Decommissioning of Un-used Sewage Works

The following are to be removed upon completion of construction of all Proposed Works:

Existing Septic System Serving Residence

- existing Septic System 1 serving Residence.

Existing Septic System 3 serving 115 trailer sites and Main Wash House

- three (3) existing septic tanks having a total capacity of 20,000 litres.
- Two-cell subsurface leaching bed, with each cell consisting of 10 runs of 30 metres long distribution pipes, 75 millimetre diameter, with a total length of 600 metres, installed within clear stone trenches overlying native soil.

All in accordance with the submitted supporting documents listed in Schedule A.

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

1. "Approval" means this entire Environmental Compliance Approval and any Schedules attached to it;
2. "BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demands;
3. "CBOD5" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in

an unfiltered sample;

4. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;
5. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
6. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19;
7. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
8. "Licensed Engineering Practitioner" means a person who holds a licence, limited licence or temporary licence under the *Professional Engineers Act*, R.S.O. 1990, c. P.28;
9. "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;
10. "Operating Authority" means the Owner, person or the entity that is authorized by the Owner for the management, operation, maintenance, or alteration of the Works in accordance with this Approval;
11. "Owner" means Maple Grove Resort Inc., including any successors and assignees;
12. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40;
13. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
14. "Rated Capacity" means the design maximum daily flow for which the sewage treatment and subsurface disposal system is designed to handle;
15. "Single Sample Result" means the test result of a parameter in the effluent discharged on any day, as measured by a probe, analyzer or in a composite or grab sample, as required;
16. "Works" means the approved sewage works, and includes Proposed Works, Existing Work.

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 PROVISIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. The Owner shall design, construct, operate and maintain the Works in accordance with the conditions of this Approval.
3. Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.

2. CHANGE OF OWNER AND OPERATING AUTHORITY

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:
 - a. change of address of Owner;
 - b. change of Owner, including address of new owner;
 - c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act, R.S.O. 1990, c. B.17* , as amended, shall be included in the notification;
 - d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* , as amended, shall be included in the notification.
2. The Owner shall notify the District Manager, in writing, of any of the following changes within thirty (30) days of the change occurring:
 - a. change of address of Operating Authority;
 - b. change of Operating Authority, including address of new Operating Authority.
3. In the event of any change in ownership of the Works, the Owner shall notify the succeeding owner in writing, of the existence of this Approval, and forward a copy of the notice to the District Manager.

4. The Owner shall ensure that all communications made pursuant to this condition refer to the environmental compliance approval number.

3. CONSTRUCTION OF PROPOSED WORKS / RECORD DRAWINGS

1. All Proposed Works in this Approval shall be constructed and installed and must commence operation within five (5) years of issuance of this Approval, after which time the Approval ceases to apply in respect of any portions of the Works not in operation. In the event that the construction, installation and/or operation of any portion of the Proposed Works is anticipated to be delayed beyond the time period stipulated, the Owner shall submit to the Director an application to amend the Approval to extend this time period, at least six (6) months prior to the end of the period. The amendment application shall include the reason(s) for the delay and whether there is any design change(s).
2. The Owner shall ensure that the treatment technologies are installed in accordance with the manufacturer's installation manual.
3. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.
4. The Owner shall ensure that an imported soil that is required for construction of any subsurface disposal bed as per this Approval is tested and verified by the Licensed Engineering Practitioner for the percolation time (T) prior to delivering to the site location and the written records are kept at the site.
5. Upon completion of construction of the Proposed Works, the Owner shall prepare and submit a written statement to the District Manager, certified by a Licensed Engineering Practitioner, that the Proposed Works is constructed in accordance with this Approval.
6. One (1) week prior to the commencement of the operation of the Proposed Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.
7. Within one (1) year of completion of construction of the Proposed Works, a set of record drawings of the Works shall be prepared or updated. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be readily accessible for reference at the Works.

4. DESIGN OBJECTIVES

1. The Owner shall design and undertake everything practicable to operate each sewage treatment and subsurface disposal system in accordance with the following objectives:
 - a. The design objectives listed in **Schedule B** for the effluent from each sewage treatment unit prior to discharging into Type A Dispersal Bed(s).
 - b. Annual Maximum Daily Influent Flow to each of four (4) sewage treatment and subsurface disposal

systems does not exceed the Rated Capacity of each specific system.

5. COMPLIANCE LIMITS

1. The Owner shall operate and maintain the Works such that compliance limits listed in the tables included in **Schedule C** are met for the effluent from each sewage treatment unit prior to discharging into Type A Dispersal Bed(s).

6. OPERATIONS AND MAINTENANCE

1. The Owner shall ensure that, at all times, the Works 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, adequate funding, adequate staffing and training, including training in all procedures and other requirements of this Approval and the OWRA and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.
2. The Owner shall prepare an operations manual within **six (6) months** of the introduction of sewage to the Works, that includes, but not necessarily limited to, the following information:
 - a. operating procedures for routine operation of all the Works;
 - b. inspection programs, including frequency of inspection, for all the Works and the methods or tests employed to detect when maintenance is necessary;
 - c. repair and maintenance programs, including the frequency of repair and maintenance for all the Works; copies of maintenance contracts for any routine inspections & pump-outs should be included for all the tanks and treatment units;
 - d. procedures for the inspection and calibration of monitoring equipment;
 - e. 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 Spills Action Centre (SAC) and District Manager; and
 - f. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
3. The Owner shall maintain an up to date operations manual and make the manual readily accessible for reference at the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
4. The Owner shall, upon the construction, prepare and make available for inspection by Ministry staff, a maintenance agreement with the manufacturer for the treatment process/technology or its authorized agent. The maintenance agreement must be retained at the site and kept current for the operational life of

the Works.

5. The Owner shall ensure that all septic tanks are pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filters are cleaned out at minimum once a year or more often if required.
6. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal bed(s), and that adequate steps are taken to ensure that the area of the underground works is protected from vehicle traffic.
7. The Owner shall visually inspect the general area where sewage works are located for break-out once every month during the operating season.
8. In the event a break-out is observed from a subsurface disposal bed, the Owner shall do the following:
 - a. sewage discharge to that subsurface disposal system shall be discontinued;
 - b. the incident shall be **immediately** reported verbally to the Spills Action Centre (SAC) at (416) 325-3000 or 1-800-268-6060;
 - c. submit a written report to the District Manager within **one (1) week** of the break-out;
 - d. access to the break-out area shall be restricted until remedial actions are complete;
 - e. during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to the environment; and
 - f. sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.
9. The Owner shall employ for the overall operation of the Works a person who possesses the level of training and experience sufficient to allow safe and environmentally sound operation of the Works.

7. MONITORING AND RECORDING

1. The Owner shall, upon commencement of operation of the Works, carry out a scheduled monitoring program of collecting samples at the required sampling points, at the frequency specified or higher, by means of the specified sample type and analyzed for each parameter listed in the tables under the monitoring program included in Schedule D and record all results, as follows:
 - a. all samples and measurements are to be taken at a time and in a location characteristic of the quality and quantity of the sewage stream over the time period being monitored.
 - b. definitions and preparation requirements for each sample type are included in document referenced in Paragraph 2.a.

- c. The measurement frequencies specified in Schedule D in respect to any parameter may, after one (1) year of monitoring in accordance with this Condition, be modified by the Director in writing.
 - d. After three (3) years of continues monitoring, the groundwater monitoring outlined in Table 4 of Schedule D may be discontinued with District Manager's concurrence.
2. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following documents and all analysis shall be conducted by a laboratory accredited to the ISO/IEC:17025 standard or as directed by the District Manager:
 - a. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater Version 2.0" (January 2016), PIBS 2724e02, as amended;
 - b. the publication "Standard Methods for the Examination of Water and Wastewater", as amended; and
 - c. for any parameters not mentioned in the documents referenced in Paragraphs 2.a, 2.b, the written approval of the District Manager shall be obtained prior to sampling.
 3. The Owner shall employ measurement devices to accurately measure quantity of effluent being discharged to each individual subsurface disposal system, including but not limited to water/wastewater flow meters, event counters, running time clocks, or electronically controlled dosing, and shall record the daily volume of effluent being discharged to the subsurface disposal system.
 4. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this Approval..

8. REPORTING

1. **One week** prior to the start up of the operation of the Proposed Works, the Owner shall notify the District Manager (in writing) of the pending start up date.
2. The Owner shall report to the District Manager orally as soon as possible any non-compliance with the compliance limits, and in writing within **seven (7) days** of non-compliance.
3. In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption of Spills and Reporting of Discharges), the Owner shall, within **fifteen (15) days** of the occurrence of any reportable spill as provided in Part X of the EPA and Ontario Regulation 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.
4. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
5. The Owner shall prepare and submit a performance report, on an annual basis, within **ninety (90) days** following the end of each operational season to the District Manager. The first such report shall cover

the first annual period following the commencement of operation of the Works and subsequent reports shall cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

- a. a summary and description of efforts made and results achieved in meeting the Effluent Objectives outlined in **Schedule B**.
- b. a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in **Schedule C** including an overview of the success and adequacy of the Works, and a Contingency Plan in the event of not in compliance with the effluent limits.
- c. a summary and interpretation of groundwater monitoring data;
- d. a summary and interpretation of surface water monitoring data;
- e. a review and assessment of performance of sewage works, including all treatment units and disposal beds;
- f. a description of any operating problems encountered and corrective actions taken at all sewage Works located at the property;
- g. a record of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of all Works located at the property' including but not limited to: records of maintenance inspections for the treatment system, records of septic tank effluent filters cleaning, records of septic tank pump-outs, records of sludge pump-outs accumulated from the treatment system, records of visual inspections of all disposal systems;
- h. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
- i. a summary and interpretation of all daily flow data and results achieved in not exceeding the maximum daily sewage flow discharged into each one of the subsurface disposal system;
- j. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- k. a summary of all spill or abnormal discharge events;
- l. any other information the District Manager requires from time to time;

9. DECOMMISSIONING OF UN-USED SEWAGE WORKS

1. The Owner shall properly abandon any portion of unused existing sewage Works, as directed below, and upon completion of decommissioning report in writing to the District Manager.
 - a. any sewage pipes leading from building structures to unused sewage Works components shall be disconnected and capped;
 - b. any unused septic tanks, holding tanks and pump chambers shall be completely emptied of its content by a licensed hauler and either be removed, crushed and backfilled, or be filled with granular material;
 - c. if the area of the existing leaching bed is going to be used for the purposes of construction of a replacement bed or other structure, all distribution pipes and surrounding material must be removed by a licensed hauler and disposed off site at an approved waste disposal site; otherwise the existing leaching bed may be abandoned in place after disconnecting, if there are no other plans to use the area for other purposes.

Schedule A

1. Application for Environmental Compliance Approval dated November 3, 2020 and received on May 13, 2021, and submitted by Rick Bryant, Owner of Maple Grove Resort Inc., for the proposed sewage treatment and subsurface disposal systems, including design report, final plans and specifications.

Schedule B

Table B-1 - Effluent Design Objectives

(Final effluent from **Ashwood Area** Sewage Treatment and Subsurface Disposal System, prior to discharging into Type A Dispersal Beds)

Final Effluent Parameter	Averaging Calculator	Concentration Objectives (maximum unless otherwise indicated)
CBOD5	Single Sample Concentration	10.0 mg/L
Total Suspended Solids	Single Sample Concentration	10.0 mg/L

Table B-2 - Effluent Design Objectives

(Final effluent from each of **Ashwood/Birchwood/Driftwood Area, Cedarwood Area,** and **Maplewood Area** Sewage Treatment and Subsurface Disposal System, prior to discharging into a Type A Dispersal Bed)

Final Effluent Parameter	Averaging Calculator	Concentration Objectives (maximum unless otherwise indicated)
CBOD5	Single Sample Concentration	10.0 mg/L
Total Suspended Solids	Single Sample Concentration	10.0 mg/L
Total Inorganic Nitrogen*	Single Sample Concentration	10.0 mg/L

*Note: Total Inorganic Nitrogen is the sum of Ammonia Nitrogen, Nitrate Nitrogen, and Nitrite Nitrogen

Schedule C

Table C-1 - Effluent Compliance Limits

(Final effluent from Ashwood Area Sewage Treatment and Subsurface Disposal System, prior to discharging into Type A Dispersal Beds)

Final Effluent Parameter	Averaging Calculator	Concentration Limits (maximum unless otherwise indicated)
CBOD5	Single Sample Concentration	20.0 mg/L
Total Suspended Solids	Single Sample Concentration	20.0 mg/L

Table C-2 - Effluent Compliance Limits

(Final effluent from each of Ashwood/Birchwood/Driftwood Area, Cedarwood Area, and Maplewood Area Sewage Treatment and Subsurface Disposal System, prior to discharging into a Type A Dispersal Bed)

Final Effluent Parameter	Averaging Calculator	Concentration Limits (maximum unless otherwise indicated)
CBOD5	Single Sample Concentration	20.0 mg/L
Total Suspended Solids	Single Sample Concentration	20.0 mg/L
Total Inorganic Nitrogen*	Single Sample Concentration	15.0 mg/L

*Note: Total Inorganic Nitrogen is the sum of Ammonia Nitrogen, Nitrate Nitrogen, and Nitrite Nitrogen

Schedule D

Monitoring Program

Table 3 - Effluent Monitoring Table

Sample locations	Four (4) locations: final effluent from <u>Ashwood Area</u> , <u>Ashwood/Birchwood/Driftwood Area</u> , <u>Cedarwood Area</u> , and <u>Maplewood Area</u> Sewage Treatment and Subsurface Disposal System, prior to discharging into Type A Dispersal Bed(s)
Sample Type	Grab
Frequency	Monthly (one sample every month) during operation
Parameters	CBOD5, Total Suspended Solids (TSS), Total Kjeldahl Nitrogen (TKN), Ammonia Nitrogen, Nitrate Nitrogen, and Nitrite Nitrogen

Table 4 - Groundwater Monitoring*

Sample locations	Eight (8) monitoring wells: MW1, MW2, MW3, MW7, MW8, MW10, MW11 & MW12, as shown in "Figure 1: Groundwater Monitoring Wells - Water Levels" dated October 2020
Sample Type	Grab
Frequency	twice a year (June and October)
Parameters	water level at each monitoring wells, TKN, Ammonia Nitrogen, Nitrate Nitrogen, and Nitrite Nitrogen

* **Note:** The groundwater monitoring program shall commence one (1) year after the commissioning of the Proposed Works. After three (3) years of continues monitoring, this groundwater monitoring may be discontinued with District Manager's concurrence.

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

1. Condition 1 regarding general provisions is imposed to ensure that the Works are constructed and operated in the manner in which they were described and upon which approval was granted.
2. Condition 2 regarding change of Owner and Operating Authority is included to ensure that the Ministry records are kept accurate and current with respect to ownership and Operating Authority of the Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
3. Condition 3 regarding construction of Proposed Works/record drawings is included to ensure that the Works are constructed in a timely manner so that standards applicable at the time of Approval of the Works are still applicable at the time of construction to ensure the ongoing protection of the environment, and that prior to the commencement of construction of the portion of the Works that are approved in principle only, the Director will have the opportunity to review detailed design drawings, specifications and an engineer's report containing detailed design calculations for that portion of the Works, to determine capability to comply with the Ministry's requirements stipulated in the terms and conditions of the Approval, and also ensure that the Works are constructed in accordance with the Approval and that record drawings of the Works "as constructed" are updated and maintained for future references.
4. Condition 4 regarding design objectives is imposed to establish non-enforceable design objectives to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.
5. Condition 5 regarding compliance limits is imposed to ensure that the Final Effluent discharged from the Works to the environment meets the Ministry's effluent quality requirements.
6. Condition 6 regarding operation and maintenance is included to require that the Works be 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. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner. Such a manual is an integral part of the operation of the Works. 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 Works.
7. Condition 7 regarding monitoring and recording is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives and compliance limits.

8. Condition 8 regarding reporting is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for this Approval.
9. Condition 9 is included to ensure that any components of un-used Works are properly decommissioned.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 7972-8UKQCZ issued on July 9, 2012.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing 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:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th.Floor
Toronto, Ontario
M7A 2J3

AND

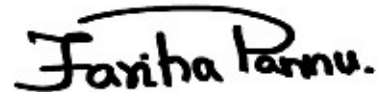
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

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

DATED AT TORONTO this 1st day of June, 2022



Fariha Pannu, P.Eng.

Director

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

NH/

c: District Manager, MECP Hamilton District Office
Grant Parkinson, GM BluePlan Engineering