

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 1431-BTWRCL
Issue Date: October 22, 2020

Ian Jonathan Laurie
102 Main Street
Bloomfield, Prince Edward County, Ontario
K0K 1G0

Site Location: 102 Main Street
Bloomfield, Prince Edward County, Ontario
K0K 1G0

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:

subsurface sewage Works for the collection, transmission, treatment, and subsurface disposal of domestic sewage with a total daily sewage flow of 19,525 litres per day, located at the above Site Location, to service a 3 bedroom single family dwelling and three (3) commercial businesses (a restaurant, beauty salon and fashion boutique) located at 106 Main Street, Bloomfield, consisting of the following:

EXISTING WORKS:

3 bedroom single family dwelling:

- one(1) class IV treatment system with a septic tank and leaching bed, having a design capacity of 1600 L/day;

3 commercial businesses:

- one (1) septic tank No.1, having a design capacity of 3600 litres, discharging to septic tank No.2;
- one (1) septic tank No.2, having a design capacity of 22,750 litres, receiving sewage from septic tank No.1 and grease interceptor No.1, equipped with an effluent filter, discharging sewage to pump chamber No.1;
- decommissioning of an existing undersized filter bed consisting 6 laterals in 6.1 meters in length and spaced 0.9 C/C;

PROPOSED WORKS:

3 commercial businesses:

- one (1) grease interceptor, having a working capacity of 162 litres per minute , receiving sewage from kitchen and discharging into septic tank No.2;
- one (1) pump chamber No.1 , having total dynamic head of 11.08 meters and a flow rate of 420 litres per minute, receiving sewage from septic tank No.2 and discharging to Norweco Modulair CR-50 system via the duplex demand dose effluent pumps and 75 millimetre diameter forcemain;
- one (1) Norweco Modulair CR-50 system (or Equivalent Equipment) , with an aeration and clarification chamber , having a working capacity of 18,925 litres per day and retention time of 24 hours,receiving sewage from pump chamber No.1 and discharging to Nitrex denitrification filter system;
- one (1) Nitrex denitrification filter system, with two(2) 18,000 litres concrete tanks, receiving sewage from Norweco Modulair and discharging to pump chamber No.2;
- one (1) pump chamber No.2, receives the sewage from Nitrex denitrification filter system and discharge to the type A dispersal bed via dual alternating effluent pumps and 50 millimeter diameter 100 pound per square inch poly sewer forcemain;
- one (1) type A dispersal bed with distribution pipes, with 364 meter squared stone layer and 1,793 meter squared sand layer, consisting sixteen(16) lateral 100 millimetres perforated PVC pipe spaced 1 meter apart, having a working capacity of 17,925 litres per day, receives the sewage from pump chamber No.2 and the distribution pipe is 70 meters from the closet property boundary;

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

all in accordance with supporting documentation listed in the **SCHEDULE 'A'**.

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

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "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;
3. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works are geographically located;
4. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19, as amended;
5. "Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the

required quality and performance standards of a named equipment;

6. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
7. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;
8. "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;
9. "OBC" means the Ontario Building Code;
10. "Owner" means Ian Jonathan Laurie and its successors and assignees;
11. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40, as amended;
12. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
13. "Professional Engineer" means a person entitled to practise as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act; and
14. "Works" means the approved sewage works, and includes Proposed Works, and Existing Works.

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 conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Approval.
3. Where there is a conflict between a provision of any submitted document referred to in this Approval and the Conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most

recent date shall prevail.

4. Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
5. The requirements of this Approval are severable. If any requirement of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Approval shall not be affected thereby.
6. The issuance of, and compliance with the conditions of, this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the Works; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

1. The approval issued by this Approval will cease to apply to those parts of the Works which have not been constructed within **five (5) years** of the date of this Approval.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within 30 days of the change occurring:
 - a. change of Owner;
 - b. change of address of the 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.B17 shall be included in the notification to the District Manager;
 - 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. C39 shall be included in the notification to the District Manager;
2. In the event of any change in ownership of the Works, other than a change to a successor

municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

3. The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this environmental compliance approval.

4. CONSTRUCTION

1. The Owner shall ensure that the construction of the Works is supervised by a Licensed Installer, or a Professional Engineer.
2. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.
3. Upon construction of the Works, the Owner shall prepare a statement, certified by a Professional Engineer, that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff.
4. Upon construction of the Works, the Owner shall prepare a set of as-built drawings showing the works "as constructed". "As-built" drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the site for the operational life of the Works and shall be made available for inspection by Ministry staff.

5. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

1. All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.
2. Samples shall be collected at the sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the Influent Monitoring Table included in **SCHEDULE 'B'**.
3. Samples shall be collected at the sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the Effluent Monitoring Table included in **SCHEDULE 'B'**.
4. 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.

5. The Owner shall ensure that flow of treated effluent discharged into the subsurface sewage system does not exceed 17,925 litres per day.
6. 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 Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only), as amended from time to time by more recently published editions;
 - b. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.
7. 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.

6. EFFLUENT OBJECTIVES

1. The Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials named as effluent parameters in the Effluent Objectives Table listed in **SCHEDULE 'B'** are not exceeded in the effluent being discharged to the subsurface disposal system.
2. For the purposes of subsection (1):
 - a. The concentrations of CBOD₅ and TSS named in Column 1 of Effluent Objectives Table listed in Schedule B, as measured at each monitoring event, should be compared to the corresponding concentration set out in Column 2 of Effluent Objectives Table listed in **SCHEDULE 'B'**.
3. In the event of an exceedence of the objective set out in subsection (1), the Owner shall,
 - a. notify the District Office as soon as possible during normal working hours,
 - b. take immediate action to identify the source of the sewage works failure, and
 - c. take immediate action to prevent further exceedence.
4. The Owner shall include in all reports submitted in accordance with Condition 8, a summary of the efforts made and results achieved under this condition.

7. OPERATIONS AND MAINTENANCE

1. The Owner shall ensure that at all times, the Works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained.
2. The Owner shall ensure that the septic tank is pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filter is cleaned out at minimum once a year (or more often if required).
3. The Owner shall ensure that the oil/grease interceptor is inspected and maintained on regular basis as required, and grease is disposed off site by a licensed hauler (e.g. at approved recycling sites).
4. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal bed, and that adequate steps are taken to ensure that the area of the underground works is protected from vehicle traffic.
5. In the event a break-out is observed from the bed, the Owner shall do the following:
 - a. sewage discharge to that subsurface disposal system shall be discontinued;
 - b. incident immediately reported verbally to the Spills Action Centre (SAC) at (416)
 - c. followed by a written report to the District Manager within one (1) week of the break-out;
 - d. during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to a surface water body or to the environment; and
 - e. sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.
6. 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.
7. The Owner shall maintain a logbook to record the results of Operation and Maintenance activities specified in the above sub-clauses, and shall keep the logbook at the site and make it available for inspection by the Ministry staff.
8. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the Operation and Maintenance activities required by this Approval.

8. REPORTING

1. One week prior to the start up of the operation of the Works, the Owner shall notify the District

Manager (in writing) of the pending start up date.

2. In addition to the obligations under Part X of the *Environmental Protection Act*, the Owner shall, within ten (10) working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.
3. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
4. 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 of Condition 6;
 - b. a review and assessment of performance of Works, including all treatment units and disposal bed;
 - c. a description of any operating problems encountered and corrective actions taken at all Works located at the property;
 - d. 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 sludge pump-outs accumulated from the treatment system, records of visual inspections of all disposal systems;
 - e. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
 - f. 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;
 - g. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - h. a summary of all spill or abnormal discharge events;

- i. 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;

10. CERTIFICATE OF REQUIREMENT

1. Pursuant to Section 197 of the EPA, no person having an interest in the Property, shall deal with the Property in any way without first giving a copy of this Approval to each person acquiring an interest in the Property as a result of the dealing.
2. The Owner shall:
 - i. within **sixty (60) days** of the date of the issuance of this Approval, submit to the Director for their review, two copies of a completed Certificate of Requirement and a registerable description of the Property; and
 - ii. within **ten (10) calendar days** of receiving the Certificate of Requirement authorized by the Director, register the Certificate of Requirement in the appropriate Land Registry Office on title to the Property and submit to the Director the duplicate registered copy immediately following registration.
3. For the purposes of this condition, Property shall mean the property located at 102 and 106 Main Street Bloomfield, Prince Edward County, Ontario K0K 1G0.

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

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved 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.
4. Condition 4 is included to ensure that the works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.
5. Condition 5 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 specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.
6. Condition 6 is imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.
7. Condition 7 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected.
8. Condition 8 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 all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.
9. Condition 9 is included to ensure that any components of un-used Works are properly decommissioned.
10. Condition 10 is included in order to require the Owner to give notice of this Approval to potential future owners of the property before the property is dealt with.

SCHEDULE 'A'

1. Application for Environmental Compliance Approval submitted by Ian Jonathan Laurie received on October 22,2019, for the proposed Municipal and Private Sewage Works, including design brief and specifications prepared by Groundwork Engineering Limited.

SCHEDULE 'B'

Table 1 - Influent Monitoring Table	
Sampling Locations	upstream of the Norweco Modulair CR-50 treatment system
Frequency	quarterly
Sample Type	Grab
Parameters	BOD Total Suspended Solids (TSS)

Table 2 - Effluent Monitoring Table	
Sampling Location	on discharge from the final Norweco Modulair CR-50 treatment system upstream from the subsurface disposal bed
Frequency	quarterly
Sample Type	Grab
Parameters	CBOD ₅ Total Suspended Solids (TSS) Oil and Grease

Table 3 - Effluent Objective Table	
Effluent Parameter	Concentration (milligram per litre unless otherwise indicated)
Column 1	Column 2
Total Suspended Solids (TSS)	10
CBOD ₅	10

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.

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

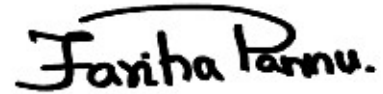
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** 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 22nd day of October, 2020

A handwritten signature in black ink that reads "Fariha Pannu." The signature is written in a cursive style with a large, sweeping initial 'F'.

Fariha Pannu, P.Eng.

Director

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

JW/

c: Area Manager, MECP Belleville Area Office

c: District Manager, MECP Kingston - District

Martin Burger, P.Eng., Groundwork Engineering Limited