

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 3980-BFNHZJ

Issue Date: September 10, 2019

Paolo Sanzo
3342 Oliver Road
Thunder Bay, Ontario
P7G 1S9

Site Location: 359 Clover Beach Road West
Municipality of Shuniah, District of Thunder Bay
P7B 5E4

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:

establishment of Class 4 sewage system having a Rated Capacity of 1,975 L/d for collection, transmission, treatment, and subsurface disposal of domestic sewage to serve a new 3-bedroom single-family residential dwelling at the above mentioned location. The Works consisting of the following:

Waterloo Biofilter Treatment System

a Class 4 system with a Rated Capacity of 1,975 L/d, including,

- one (1) underground Sewage Tank having a working volume of approximately 3,790 L including a 395 L internal pump vault, equipped with a submersible sewage pump controlled by timer and floats for pump ON/OFF and complete with audible and visual alarms, and a control panel;
- one (1) in-ground two-compartment Waterloo Biofilter Bulk-Filled Sewage Tank, having a total working volume of approximately 4,450 L: first compartment filled with foam filter media designed with a maximum foam loading rate of 715 L/m³ of foam per day, and installed with a manifold complete with spray nozzle evenly distributed over the foam; second compartment equipped with a submersible pump to be operated in a double-pass mode, allowing 50% of the effluent recirculated back to the 3,790 L Sewage Tank, and discharging the remaining 50% of the effluent to a Type A Dispersal Bed; and
- the Sewage Tanks used in the proposed Class 4 treatment system shall comply with the OBC requirements.

Subsurface Disposal Bed

- one (1) in-ground Type A Dispersal Bed with a Rated Capacity of 1,975 L/day, consisting of a 250 mm thick of 37.5 mm washed stones layer of approximately 26.3 m² and located not less than 900 mm

above the high groundwater table, rock or soil with a percolation time more than 50 min/cm, covered with geotextile fabric and installed with 3 runs of 3.8 m long 100 mm diameter PVC perforated distribution pipes, topped with a 250 mm thick sand layer, underlain by a 250 mm thick contact area of approximately 49.4 m² filled with approved native soils with a percolation T-time of approximately 10 min/cm, complete with 250 mm thick native soil mantle extending southward for approximately 15 m from the south edge of the loading area. The bed medium and stone shall comply with the OBC requirements.

and 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 documents listed in **Schedule A**.

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

1. "Act" means the *Ontario Water Resources Act* , R.S.O. 1990, Chapter O.40, as amended;
2. "Application" means the application for an environmental compliance approval submitted to the Ministry for approval by or on behalf of the Owner and dated January 30, 2019;
3. "Approval" means this entire document and any schedules attached to it, and the application;
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 are geographically located;
6. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19, as amended;
7. "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;
8. "OBC" means the *Ontario Building Code* ;
9. "Owner" means Paolo Sanzo and its successors and assignees;
10. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40, as amended;
11. "Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the *Professional Engineers Act* .
12. "Rated Capacity" means maximum day sanitary sewage design flow for which the Works are approved to handle; and
13. "Works" means the sewage works described in the 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 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 one or more of the documents submitted by the Owner, 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.

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 thirty (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.

4. CONSTRUCTION

(1) The Owner shall ensure that the construction of the Works is supervised by a licensed installer, as defined in the *Ontario Building Code* or a Professional Engineer, as defined in the *Professional Engineers Act*.

(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 licensed installer or 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 and staff of the local municipality.

(4) Upon construction of the Works, as-built drawing(s) showing the works “as constructed” shall be prepared by the licensed installer or a Professional Engineer. The drawing(s) shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the Works for the operational life of the Works.

5. OPERATIONS, MAINTENANCE, MONITORING AND RECORDING

(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 sign a Service and Maintenance Agreement with the manufacturer or approved agent of the Waterloo Biofilter treatment system. The maintenance agreement must be retained at the site for as long as the Works are in operation, kept current and made available for inspection by the Ministry staff.

(3) The Owner shall receive from the manufacturer or distributor of Waterloo Biofilter printed literature that describes the unit in detail and provides complete instructions regarding the operation, servicing, and maintenance requirements of the unit and its related components necessary to ensure the continued proper operation in accordance with the original design and specifications.

(4) The Owner shall ensure that the treatment system is at minimum inspected annually by the Waterloo Biofilter authorized personnel, and maintained according to the manufacturer's recommendations including minimal yearly effluent sampling for CBOD₅ and Total Suspended Solids to ensure that it meets design objectives of 10 mg/l for both CBOD₅ and Total Suspended Solids in a grab effluent sample before discharge to the subsurface disposal bed;

(5) 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).

(6) 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.

(7) The Owner shall ensure that in the event a break-out is observed from the subsurface disposal bed, the sewage discharge to the bed is discontinued and the incident immediately reported verbally to the District Manager, followed by a written report within seven (7) days. The Owner shall ensure that 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 safely collected and disposed of through a licensed waste hauler to an approved waste disposal site.

(8) 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.

(9) The Owner shall retain for a minimum of five (5) years from the date of their creation, or longer if requested in writing by the District Manager, all records and information related to or resulting from the operations and maintenance activities required by this Approval, including, without restricting the generality of the foregoing:

- (a) all maintenance records including associated log books; and
- (b) all records of septic tank pump-out.

6. REPORTING

(1) One (1) 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.

Schedule A

1. ECA application package, submitted by Paolo Sanzo, dated January 30, 2019, enclosed with design documents, prepared by Allen Vibert (BCIN: 16190) of Allens Enterprises Services Inc., dated February 18, 2019.

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 require that the Works be properly operated, maintained, and equipped such that the environment is protected.
6. Condition 6 is included to ensure that the Ministry records are complete.

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

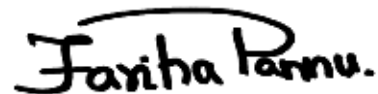
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** 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 10th day of September, 2019



Fariha Pannu, P.Eng.

Director

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

YD/

c: District Manager, MECP Thunder Bay - District
Sarah Orendt, Allens Enterprises Services Inc.