

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 7648-BFXQYK

Issue Date: October 25, 2019

Kennebec Holdings Limited
120 Eglinton Avenue East, Unit No. 202
Toronto, Ontario, M4P 1E2

Site Location: 1422 Cox Road, Arden
Central Frontenac Township,
County of Frontenac
Ontario, K0H 1B0

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 establishment of non-municipal on-site Sewage works with a proprietary treatment and sub-surface effluent disposal system, servicing Camp Kennebec (Frontenac 1979), located on a 340 ha. land area, having an existing Seasonally Operated 200 units Camp Site with designed sewage flow, rated at 55,980 L/day, consisting of the following:

EXISTING SYSTEM TO STAY:

Rec Hall: Sewage Collection, Treatment and Effluent Disposal: a 100 person assembly hall facility having a designed sewage flow $Q = 1500$ L/day to flow by gravity into an existing 4,572 L capacity two (2) chamber Septic tank to discharge effluent into a 55 sq.m. septic bed via gravity flow into four (4) runs of 75mm diameter perforated pipes, each 15.2m in length and laid at 1.2m on center; together with the following works:

PROPOSED SYSTEM:

Sewage Collection, tankage and Pumping System

- 1 . Journey - 24 bed Sleeping Quarter (SQ), with designed sewage flow $Q = 3000$ L/day to gravity flow into one (1) 3600 L capacity septic tank and effluent to flow by gravity via a 100 mm diameter sewer into an existing pump chamber as described below:
- 2 . Odeon - a 32 bed SQ, with designed sewage flow $Q = 4000$ L/day to gravity flow into the existing Pump Chamber Wet well of 340 L capacity, coupled with a 1000 L capacity new wet well chamber, to pump sewage via one (1) existing submersible pump, rated at 210 L/min. to discharge via an existing 38 mm diameter 43 m long forcemain into an existing 4,100 L capacity tank to be converted into Pump Chamber # 8;
3. Country - a 20 bed SQ, with designed sewage flow $Q = 2500$ L/day to flow by gravity

into the pump chamber # 8, described later;

4. Boys Shower Room: a 7 shower stall facility having a designed sewage flow $Q = 1,400$ L/day to flow by gravity into the Pump Chamber # 8;
5. Holiday Inn - a 22 bed SQ, with designed sewage flow, $Q = 2750$ L/day to flow by gravity into one (1) precast concrete pump chamber #5 having a working volume of **1000 L**, complete with one (1) submersible pump to discharge via a 38m long 50mm diameter forcemain into the existing Pump Chamber # 8;
6. Pump Chamber # 8: with a 4100 L capacity wet well, complete with two (2) submersible pumps rated 302 lpm at 18.3m TDH to pump collected sewage via a 75mm diameter forcemain 142m long into a 150mm diameter gravity sewer from the Chalet Septic tank, described later:
7. Chalet - a 22 bed SQ, with designed sewage flow $Q = 2750$ L/day and Arts and Craft Stall with a sink facility $Q = 200$ L/day to flow by gravity into an existing Septic Tank with capacity 3,744 L and discharging via the 150mm diameter gravity sewer, 114m long into the Balancing Tank BT 1;
8. The Lounge - a 11 bed SQ, with designed sewage flow $Q = 1375$ L/day, to flow by gravity into Pump Chamber # 10 Wet well of 1000 L capacity, complete with one (1) submersible pump, rated at 450 lpm at 2.3 m TDH to discharge via a 56 m long 50 mm diameter forcemain into the Balancing Tank BT 1;
9. A 2 bed Private Residence with designed sewage flow, $Q = 1100$ L/day and a 2 bed Lodge $Q = 250$ L/day: sewage from both to flow by gravity into an existing 4,100 L capacity septic tank to flow effluent via a 100 mm diameter gravity sewer into Pump Chamber # 7, described later;
10. Point Cottage - a 4 bed room dwelling, with designed sewage flow $Q = 2000$ L/day: sewage is being collected by gravity flow in the Pump Chamber # 7, with a 4,100 L capacity wet well, complete with two (2) submersible pumps rated at 533 lpm at 5.11 m TDH to discharge via a 50mm diameter forcemain approximately 30 m long to discharge into a 100 mm diameter gravity sewer to join with an existing 100 mm diameter gravity sewer line from Infirmary, described later on:
11. Infirmary - 8 beds facility, with designed sewage flow $Q = 1000$ L/day: sewage is being collected by the existing gravity sewer to discharge into Pump Chamber # 6, located south of the HUB building;
12. HUB and Laundry Cabin: Hub Kitchen $Q = 3000$ L/day, Laundry $Q = 17,500$ L/day: gravity sewage flow from the kitchen via a grease trap and a sewer connection and the connection from the laundry to flow into the Pump Chamber #6, complete with two (2) submersible pumps in a 9,100 L capacity wet well, pumps are rated at 460 lpm at 8.72 m TDH to discharge sewage flow via a 75mm diameter forcemain 125 m long into a Junction Manhole # 1 located east of Motel 6;
13. Ritz - a 24 bed SQ, with designed sewage flow $Q = 3000$ L/day: sewage to flow by gravity into the Pump Chamber # 3 Wet well of 1000 L capacity, complete with one (1) submersible pump rated at 330 lpm at 10.39 m TDH to discharge via a 50 mm diameter forcemain approximately 40 m long to join into a 75 mm diameter forcemain from Pump Chamber # 2:

14. Fireside - 22 bed SQ, with designed sewage flow $Q = 2750$ L/day, to flow by gravity into a new 5,100 L capacity septic tank to discharge effluent by gravity into Pump Chamber # 2, complete with one (1) submersible pump in a 3,600L capacity wet well, pump is rated at 335 lpm at 10.53m TDH to discharge via a 50mm diameter forcemain approximately 32 m long into the Junction Manhole #1, described later;
15. Cozy - a 18 bed SQ, with designed sewage flow $Q = 2250$ L/day, sewage to flow by gravity into the Fireside's new septic tank mentioned earlier;
16. Seaside - a 20 bed SQ, with designed sewage flow $Q = 2500$ L/day: sewage to flow by gravity via a 100 mm diameter gravity sewer 38 m long into the Fireside's new septic tank mentioned earlier;
17. Girls' Shower Room - a 7 shower stall facility having a designed sewage flow $Q = 1400$ L/day: to flow by gravity into the Pump Chamber # 9 Wet well of 1000 L capacity, complete with one (1) submersible pump, rated at 208 lpm at 6.9 m TDH to discharge via a 50 mm diameter forcemain approximately 16 m long to join with 75 mm diameter forcemain from Pump Chamber 2;
18. Motel 6 - a 6 bed SQ, with designed sewage flow $Q = 750$ L/day, to flow by gravity into the Pump Chamber # 4 Wet well of 1000 L capacity, complete with one (1) submersible pump, rated at 391 lpm at 3.76 m TDH to discharge via a 50 mm diameter forcemain approximately 27 m long to discharge into the Junction Manhole # 1;
20. Junction Manhole # 1: a 1.2 m diameter manhole, complete with backflow preventers, to discharge sewage via a 150 mm diameter gravity sewer main, 27 m long into the Pre-treatment/Balancing Tank BT 1, as follows:

Pre-treatment/Balancing Tanks BT1 thru BT10:

Ten (10) 5678 L capacity single chamber tanks, connected in series to provide a total storage volume of 56,780 L for flow balancing and equalization, to supply sewage into ten (10) proprietary package treatment units as described below:

Treatment:

Two (2) Parallel Package Units:(by proprietary HYDRO-KINETIC Technology in ten (10) NORWECO 5760 Tanks or approved equivalents): In each package unit, the first tank uses an extended detention activated sludge type process with decantation, recirculation and sludge digestion without media and allowing biological treatment without accelerated clogging. Its main tank incorporates a two-stage primary treatment configured to achieve maximum sludge degradation and thereby reduce maintenance requirements. The primary treatment of HYDRO-KINETIC will be drained only if necessary rather than at a predetermined frequency. The Unit reservoir tank features four treatment zones: the first 2 zones are the primary treatment zones where heavy solids are trapped in the first compartment while lighter organic solid travels to the second compartment where they are put in contact with the recirculated activated sludge where they get digested. The third compartment is the main extended aeration activated sludge reactor where thorough aeration and mixing occurs and soluble organic matter is transformed into biosolids and sludge by-products. The last settling zone acts for separation of the treated effluent with the biosolids which are recirculated in the primary treatment zone for further treatment and digestion. After passing through

the flow equalization device assuring optimal retention time in the reactor, the effluent travels to the last reservoir containing fix film media filter, where final filtration and biological degradation and polishing occurs. The final effluent is then discharged into a dosing chamber as described below:

Dosing Chamber:

Effluent from the two (2) parallel treatment packages are to discharge treated effluent in one (1) 5,760L capacity Dosing Chamber #1, complete with two (2) 291 lpm rated at 2.35 m TDH submersible pumps to discharge via a five (5) way valved distribution chamber into a Type A dispersal bed as described below:

Subsurface Effluent Disposal System:

One (1) fully raised bed having a 300 mm sand layer with $6 < T < 10$ contact area of 1141sq.m., overlaid with 300 mm deep stone layer, fed in via five (5) 100mm diameter header pipes into thirty (30) runs of 30 m long 75 mm diameter perforated distribution pipes laid at 1.2 m on center with a total length of 900 m, overlaid with 300 mm deep sand layer ($8 < T < 12$), and overlaid with 100 mm deep topsoil and seeding, all complete with 1:4 side sloped bed enclosure mantle area; including all other controls, electrical equipment, instrumentation, piping, pumps, valves, inspection and maintenance ports, sampling port and appurtenances essential for the proper operation of the aforementioned sewage works; all in accordance with the supporting documents as listed in **Schedule A**.

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

1. "Approval" means this entire Approval document and any Schedules to it, including the application and Supporting Documentation;
2. "BOD₅" (also known as TBOD₅) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;
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.I of the EPA;
5. "Grab Sample" means an individual sample of at least 1000 millilitres collected in an appropriate container at a randomly selected time over a period of time not exceeding 15 minutes;
6. "District Manager" means the District Manager of the Kingston District Office;

7. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
8. "Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;
9. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
10. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;
11. "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;
12. "OBC" means the Ontario Building Code;
13. "Owner" means Kennebec Holdings Limited and its successors and assignees;
14. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
15. "Rated Capacity" means design daily sanitary sewage flow for which the Works are approved to handle;
16. "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;
17. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
18. "Supporting Documentation" means the documents listed in Schedule A of this Approval;
19. "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**

2. 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.
3. 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, and the application for approval of the Works.
4. Where there is a conflict between a provision of any document in the schedule 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 documents in the schedule, the document bearing the most recent date shall prevail.
5. Where there is a conflict between the documents listed in the Schedule 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.
6. The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement 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.
- 7.

EXPIRY OF APPROVAL

8. 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.
- 9.

CHANGE OF OWNER

10. 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:

1. change of Owner;
2. change of address of the Owner;
3. 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;

4. 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 Informations Act*, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager;

11. 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.

12. CONSTRUCTION

13. The Owner shall ensure that the construction of the Works is supervised by a licensed installer or a Professional Engineer, as defined in the *Professional Engineers Act*.

14. The Owner shall ensure that the proposed Treatment system is installed in accordance with the Manufacturer's Installation Manual.

15. 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 Professional Engineer or Licensed Installer for the percolation time (T) prior to delivering to the site location and the written records are kept at the site.

16. 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.

17. 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.

18. 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 -1** 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 -2** 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 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:
 1. 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;
 2. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and
 3. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.
6. 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 -3** listed in **Schedule C** are not exceeded in the effluent being discharged to the subsurface disposal system.

2. For the purposes of subsection (1): The concentrations of CBOD5 and TSS named in Column 1 of **Effluent Objectives Table -3** listed in **Schedule C**, as measured at each monitoring event, should be compared to the corresponding concentration set out in Column 2 of **Effluent Objectives Table -3** listed in **Schedule C**.

7. OPERATIONS AND MAINTENANCE

1. 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:

1. operating procedures for routine operation of all the Works;
2. inspection programs, including frequency of inspection, for all the Works and the methods or tests employed to detect when maintenance is necessary;
3. 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;
4. procedures for the inspection and calibration of monitoring equipment;
5. a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager; and
6. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

2. The Owner shall maintain the Operations Manual current and retain a copy at the location of the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

3. 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.

4. 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.

5. 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).

6. The Owner shall ensure that grass-cutting is maintained regularly over all the subsurface disposal beds, and the surface of the bed(s) are visually observed on a monthly basis. In the event a break-out is observed from a subsurface disposal bed, the Owner shall ensure that the sewage discharge to the bed is discontinued and the incident immediately reported verbally to the District Manager, followed by a written report within one (1) week. 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 shall be safely collected and disposed off through a licensed waste hauler to an approved waste disposal site.

7. The Owner shall ensure that adequate steps are taken to ensure that the area of the Works are protected from all forms of vehicle traffic.

8. 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.

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 10 working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, 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:

1. a summary and description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6;
2. a review and assessment of performance of sewage works, including all treatment units and disposal beds;
3. a description of any operating problems encountered and corrective actions taken at all sewage Works located at the property;
4. 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;
5. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
6. 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;
7. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
8. a summary of all spill or abnormal discharge events;
9. any other information the District Manager requires from time to time;

9. DECOMMISSIONING

1. The Owner shall properly abandon any portion of unused existing sewage Works and upon completion of decommissioning report in writing to the District Manager.
 1. any sewage pipes leading from building structures to unused sewage Works components shall be disconnected and capped;
 2. 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;
 3. 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;

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. As well, the inclusion of an operations manual, maintenance agreement with the manufacturer for the treatment process/technology and a complete set of "as constructed" drawings governing all

significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the Ministry. Such information 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 work.

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 unused Works are properly decommissioned.

Schedule A.

Supporting documents:

1. Application for Approval of Municipal and Private Sewage Works, dated January 17, 2019, Design Brief, calculations and drawings, prepared and submitted by Martin Burger, Groundwork Engineering Limited.

Schedule B

Influent Monitoring Table -1

Sampling Location	Upstream of the Treatment System (Balancing Tank)
Frequency	Quarterly
Sample Type	Grab
Parameters	BOD5 Total Suspended Solids (TSS), Total Kjeldahl Nitrogen (TKN) and Total Phosphorus (TP)

Effluent Monitoring Table-2

Sampling Location	On discharge from the final Treatment System upstream from subsurface disposal bed (Sample from the Dosing Chamber #1)
Frequency	Once a month during the months of May, July, August and October
Sample Type	Grab
Parameters	CBOD ₅ Total Suspended Solids (TSS) Total Phosphorus (TP) Total Ammonia Nitrogen (TAN)

	Nitrate Nitrogen Nitrite Nitrogen Total Kjeldhal Nitrogen (TKN) pH Temperature (ambient and sewage effluent)
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Schedule C

Effluent Objectives Table-3

Effluent Parameter (tested on outlet from the final Waterloo Biofilter Treatment Units)	Concentration Objective (milligrams per litre unless otherwise indicated)
CBOD5	10
Total Suspended Solids	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 AND The Minister of the Environment,
Conservation and Parks AND The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act

655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

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 25th day of
October, 2019

Fariha Pannu, P.Eng.
Director
appointed for the purposes of Part
II.1 of the *Environmental Protection
Act*

MN/
c: District Manager, MECP Kingston - District
Martin Burger, P.Eng. of Groundwork Engineering Limited