

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 9928-D7MPZ9
Issue Date: September 24, 2024

Parkbridge Lifestyle Communities Inc.
70 Huron St
Collingwood, Ontario
L9Y 3Z1

Site Location: 82229 Bluewater Highway
Goderich, Township of Ashfield-Colborne-Wawanosh, Ontario
N7A 3Y3

LT 3 CON BROKEN FRONT WD COLBORNE; PT LT 3 LAKE ROAD WEST CON
COLBORNE PT 1 22R2238; ASHFIELD-COLBORNE-WAWA
PIN: 41120-0008 (LT)

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:

usage and operation of existing non-municipal Works, for the treatment of sanitary sewage from two (2) private communities at the above site location and disposal of treated effluent to Lake Huron via a Sewage Treatment Plant (continuous discharge lagoon) and Final Effluent disposal facilities as follows:

Classification of Sewage Treatment Plant: Secondary Equivalent

Details of Service Area:

- **Type of Occupancy:** Year-round Residential
- **Type and Number of Units:**
 - 479 residential units in The Bluffs at Huron community (including the proposed expansion)
 - 142 residential units and 1 pool in The Huron Haven community
 - Bluffs Community Centre
 - Bluffs Office
 - Huron Haven Community Centre
 - Pavilion

Design Capacity of Sewage Treatment Plant:

Design Capacity with All Treatment Trains in Operation	Existing Works
Rated Capacity	343 cubic metres per day

Influent and Imported Sewage

Receiving Location	Types
In Collection System	Sanitary Sewage
At Sewage Treatment Plant	None

Existing Works:

Sanitary Sewage Pumping Stations (under the OBC)

- one (1) sewage pumping station, referred to as the West SPS (private collection system under the OBC), having a 2.4 metre diameter wet well, equipped with two (2) submersible pumps (one standby) each with a capacity of 11.7 litres per second, and approximately 420 metres of 100 millimetre diameter forcemain, discharging to the first aerated lagoon cell;
- one (1) sewage pumping station, referred to as the East SPS (private collection system under the OBC), having a 2.4 metre diameter wet well, equipped with two (2) submersible pumps (one standby) each with a capacity of 11.2 litres per second, and a 150 millimetre diameter forcemain to discharge to the first aerated lagoon cell;

Alum Feed Systems

- an alum feed system housed within a shed located adjacent to the West SPS, consisting of one (1) 3000 litre capacity chemical storage tank, two (2) chemical feed pumps, each capable of delivering alum at 25 litres per hour to the forcemain;
- an alum feed system housed within a shed located adjacent to the East SPS, consisting of one (1) 3000 litre capacity chemical storage tank, two (2) chemical feed pumps, each capable of delivering alum at 25 litres per hour to the forcemain;

Sewage Treatment Plant - Continuous Discharge Lagoon

Influent Flow Measurement and Sampling Point

- flow measurement device on the discharge piping of each pumping station described above;

- Influent sampling at each pumping station described above;

Aerated Lagoon System

- a two-cell aerated lagoon system each with a 3.60 metres water-depth and 0.52 hectare surface area to treat a design average flow of 343 cubic metres per day, equipped with approximately 1600 metres of diffuser pipes and two (2) blowers (one blower as 100 percent stand-by) each rated at 65.6 litres per second at 20.8 metres;

UV Disinfection System

- a UV disinfection system designed for an average flow of lagoon effluent of 14.3 cubic metres per hour and a maximum flow of 34 cubic metres per hour, equipped with an intensity monitor, and controls and alarms for lamp status;

Final Effluent Flow Measurement and Sampling Point

- flow measurement device on the lagoon discharge piping;
- Final Effluent sampling at the outlet of the UV disinfection system;

Final Effluent Disposal Facilities

- a 200 millimetre diameter outlet sanitary sewer, conveying effluent from the existing sewage lagoon discharge pipe, connecting to a storm sewer manhole DIMH 10, to approximately 192.5 metres long, 1200 millimetre diameter storm sewer outfall, which also includes stormwater run-off from Huron Haven Village residential development, discharging to Lake Huron;

including all other mechanical system, electrical system, instrumentation and control system, piping, pumps, valves and appurtenances essential for the proper, safe and reliable operation of the Works in accordance with this Approval, in the context of process performance and general principles of wastewater engineering only;

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. "Annual Average Daily Effluent Flow" means the cumulative total Final Effluent discharged during a calendar year divided by the number of days during which Final Effluent was discharged that year;
2. "Annual Average Daily Effluent Loading" means the value obtained by multiplying the Annual Average Effluent Concentration of a contaminant by the Annual Average Daily Effluent Flow over the same calendar year;
3. "Annual Average Daily Influent Flow" means the cumulative total sewage flow of Influent to the Sewage Treatment Plant during a calendar year divided by the number of days during which sewage was flowing

to the Sewage Treatment Plant that year;

4. "Annual Average Effluent Concentration" is the mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured during a calendar year;
5. "Approval" means this entire Environmental Compliance Approval and any Schedules attached to it;
6. "BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demands;
7. "CBOD5" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;
8. "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;
9. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
10. "*E. coli* " refers to coliform bacteria that possess the enzyme beta-glucuronidase and are capable of cleaving a fluorogenic or chromogenic substrate with the corresponding release of a fluorogen or chromogen, that produces fluorescence under long wavelength (366 nm) UV light, or color development, respectively. Enumeration methods include tube, membrane filter, or multi-well procedures. Depending on the method selected, incubation temperatures include 35.5 + 0.5 °C or 44.5 + 0.2 °C (to enumerate thermotolerant species). Depending on the procedure used, data are reported as either colony forming units (CFU) per 100 mL (for membrane filtration methods) or as most probable number (MPN) per 100 mL (for tube or multi-well methods);
11. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19;
12. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
13. "Final Effluent" means effluent that is discharged to the environment through the approved effluent disposal facilities, that are required to meet the compliance limits stipulated in the Approval for the Sewage Treatment Plant at the Final Effluent sampling point(s);
14. "Grab Sample" or "Grab" 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;
15. "Influent" means flows to the Sewage Treatment Plant from the collection system;
16. "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;

17. "Monthly Geometric Mean Density" is the mean of all Single Sample Results of *E.coli* measurement in the samples taken during a calendar month, calculated and reported as per the methodology specified in Schedule D;
18. "Normal Operating Condition" means the condition when all unit process(es), excluding Preliminary Treatment System (if applicable), in a treatment train is operating within its design capacity;
19. "OBC" means the Ontario Building Code, Ontario Regulation 332/12 (Building Code) as amended to January 1, 2015, made under the *Building Code Act*, 1992, S.O. 1992, c. 23;
20. "Operating Agency" 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;
21. "Owner" means Parkbridge Lifestyle Communities Inc., including any successors and assignees;
22. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40;
23. "Preliminary Treatment System" means all facilities in the Sewage Treatment Plant associated with screening and grit removal;
24. "Rated Capacity" means the Annual Average Daily Influent Flow for which the Sewage Treatment Plant is designed to handle;
25. "Responsibility Agreement" means a legal agreement between a municipality and developer which stipulate the conditions under which communal services will be constructed, operated and maintained, as well as, the action to be undertaken by the municipality in the event of default;
26. "Sewage Treatment Plant" means all the facilities related to sewage treatment within the sewage treatment plant site excluding the Final Effluent disposal facilities;
27. "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;
28. "Site" means the property or properties listed in the Site Location section of this Approval;
29. "Works" means the approved sewage works, and includes 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 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 AGENCY

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* shall be included in the notification;
 - d. change of name of the corporation and a copy of the most current information filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* 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 the Operating Agency;
 - b. change of the Operating Agency, including address of the new Operating Agency.
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 number of this Approval.

3. RECORD DRAWINGS

1. A set of record drawings of the Works 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. COMPLIANCE LIMITS

1. The Owner shall operate and maintain the Sewage Treatment Plant such that compliance limits for the Final Effluent parameters listed in the table(s) included in **Schedule B** are met.
2. The Owner shall operate and maintain the Sewage Treatment Plant such that the Final Effluent is disinfected continuously year-round.

5. OPERATION 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 staffing and training, including training in all procedures and other requirements of this Approval and the OWRA and relevant regulations made under the OWRA, process controls and alarms and the use of process chemicals and other substances used in the Works.
2. The Owner shall maintain the operations manual for the Works, that includes, but not necessarily limited to, the following information:
 - a. operating procedures for the Works under Normal Operating Conditions;
 - b. inspection programs, including frequency of inspection, for 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 the Works;
 - d. procedures for the inspection and calibration of monitoring equipment;
 - e. operating procedures for the Works to handle situations outside Normal Operating Conditions and emergency situations such as a structural, mechanical or electrical failure, or an unforeseen flow condition;
 - f. 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;

- g. procedures for receiving, responding and recording public complaints, including recording any followup 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 ensure that the Operating Agency fulfills the requirements under O. Reg. 129/04, as amended for the Works, including the classification of facilities, licensing of operators and operating standards.
 5. The Owner shall maintain a logbook to record the results of all inspections, repair and maintenance undertaken, calibrations, monitoring and spill response or contingency measures undertaken and shall make the logbook available for inspection by Ministry staff. The logbook shall include the following:
 - a. the name of the operator making the entry; and
 - b. the date and results of each inspection, repair, maintenance, calibration, monitoring, spill response and contingency measure.
 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 operation and maintenance activities required by this Approval.

6. 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 C** 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.b.
 - c. definitions for frequency:
 - i. Monthly means once every month;
 - ii. Weekly means once every week;
 - d. a schedule of the day of the week/month for the scheduled sampling shall be created. The sampling schedule shall be revised and updated every year through rotation of the day of the week for the

scheduled sampling program, except when the actual scheduled monitoring frequency is three (3) or more times per week.

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 Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only), as amended;
 - b. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater Version 2.0" (January 2016), PIBS 2724e02, as amended;
 - c. the publication "Standard Methods for the Examination of Water and Wastewater", as amended; and
 - d. for any parameters not mentioned in the documents referenced in Paragraphs 2.a, 2.b and 2.c, the written approval of the District Manager shall be obtained prior to sampling.
3. The Owner shall monitor and record the flow rate and daily quantity using flow measuring devices or other methods of measurement as approved below calibrated to an accuracy within plus or minus 15 per cent (+/- 15%) of the actual flowrate of the following:
 - a. Influent flow to the Sewage Treatment Plant by continuous flow measuring devices and instrumentations;
 - b. Final Effluent discharged from the Sewage Treatment Plant by continuous flow measuring devices and instrumentations;
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.

7. REPORTING

1. The Owner shall report to the District Manager orally **as soon as possible** any non-compliance with the compliance limits specified in Condition 4, and in writing within **seven (7) days** of non-compliance.
2. 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) made under the EPA, the Owner shall, within **fifteen (15) days** of the occurrence of any reportable spill as provided in Part X of the EPA and O. Reg. 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.
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 performance reports on a calendar year basis and submit to the District Manager in an electronic format by **March 31** of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:
 - a. a summary and interpretation of all Influent monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;
 - b. a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;
 - c. a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;
 - d. a summary of all operating issues encountered and corrective actions taken;
 - e. a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
 - f. a summary of any effluent quality assurance or control measures undertaken;
 - g. a summary of the calibration and maintenance carried out on all Influent and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;
 - h. a tabulation of the measured volume of sludge accumulated in the lagoon cells in five year intervals and the estimated volume in the interim years and when sludge was disposed of during the reporting period, a summary of disposal locations and volumes of sludge disposed at each location;
 - i. a summary of any complaints received and any steps taken to address the complaints;
 - j. a summary of all situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;
 - k. any other information the District Manager requires from time to time.

8. RESPONSIBILITY AGREEMENT

1. In accordance with the Ministry Procedure D-5-2 entitled "Application of Municipal Responsibility for Communal Water and Sewage Services", the Owner has entered into a duly signed Responsibility Agreement with the Township of Ashfield-Colborne-Wawanosh for the Works approved herein.

9. REGISTRATION ON TITLE REQUIREMENT

1. Pursuant to Section 197 of the Environmental Protection Act, prior to dealing with any of the properties comprising the Site in any way, the Owner shall provide a copy of this Approval and any amendments, to any person who will acquire an interest in the property as a result of the dealing.
2. Within **sixty (60) calendar days** of the issuance of this Approval, the Owner shall submit to the Director:
 - a. a plan of survey including each property comprising the Site indicating where the Works will be located;
 - b. a completed Certificate of Requirement and its supporting documents containing a registerable description of each property comprising the Site.
3. Within **fifteen (15) calendar days** of receiving a Certificate of Requirement authorized by the Director, the Owner shall:
 - a. register the Certificate of Requirement in the Land Titles Division of the Land Registry Office on the title to each property comprising the Site; and
 - b. submit to the Director written verification that the Certificate of Requirement has been registered on title.

10. SPECIAL CONDITIONS

1. No residence at the property shall be situated less than 100 metres from any portion of the lagoon.
2. Consultation with the Ministry shall occur prior to any severing of lots, to ensure that the Works continue to meet Ministry's D-2 Guide, "Compatibility between Sewage Treatment and Sensitive Land Use", environmental compliance approval requirements, and planning authority recommendations.
3. The site owner shall make best efforts to incorporate into their lease agreement that the resident understands they will be living within 100 metres of a sewage lagoon.
4. All odour complaints originating from the property that the lagoon is located on shall be recorded with a minimum of: date, time, location, and action by the facility.
5. All odour complaint records included in subsection 4 shall be included in the annual performance report required in subsection 4 of Condition 7.

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 Agency is included to ensure that the Ministry records are kept accurate and current with respect to ownership and Operating Agency 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 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 compliance limits is imposed to ensure that the Final Effluent discharged from the Works to the environment meets the Ministry's effluent quality requirements.
5. Condition 5 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.
6. Condition 6 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.
7. Condition 7 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.
8. Condition 8 regarding Responsibility Agreement is included to ensure that there is a Responsibility Agreement in place between the Owner and the municipality prior to construction of the Works so that, in the event that the Owner is unable to continue to provide sewage service, the municipality may be able to

assume ownership and operation of the Works.

9. Condition 9 regarding registration on title requirement 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.
10. Condition 10 regarding special conditions is included in order to mitigate impact of potential odour from the lagoon and to ensure that odour complaints are properly recorded and reported to the Ministry.

Schedule A

1. Application for Environmental Compliance Approval dated and received on January 19, 2024 and received on January 25, 2024, submitted by Parkbridge Lifestyle Communities Inc. for the existing lagoon system, including the design brief and other supporting information.
2. Memo re. The Bluffs at Huron, ECA Amendment Application - Response to Questions, MECP Ref No. 8561-CZUGWZ, dated May 16, 2024 and prepared by Tatham Engineering Limited.
3. Parkbridge LC, Sludge Survey Report 2023, Ashfield-Colbourn-Wawanosh, ON - Wastewater Lagoons, dated May 29, 2023 and prepared by Sludge Mapper.
4. Historical Sewage and Effluent Flow, April 9, 2022 to May 6, 2024, prepared by Tatham Engineering Limited.
5. Memo re. The Bluffs at Huron, ECA Amendment Application - Response to Questions, MECP Ref No. 8561-CZUGWZ, dated June 11, 2024 and prepared by Tatham Engineering Limited.
6. Memo re. The Bluffs at Huron, ECA Amendment Application - Response to Questions, Odour Prevention and Contingency Plans, and Sludge Removal Plan, MECP Ref No. 8561-CZUGWZ, dated July 18, 2024 and prepared by Tatham Engineering Limited.
7. Memo re. The Bluffs at Huron, ECA Amendment Application - Response to Questions, MECP Ref No. 8561-CZUGWZ, dated July 23, 2024 and prepared by Tatham Engineering Limited.

Schedule B

Final Effluent Compliance Limits

Concentration Limits

Final Effluent Parameter	Averaging Calculator	Concentration Limit (milligrams per litre and maximum unless otherwise indicated)
CBOD5	Annual Average Effluent Concentration	30
Total Suspended Solids		30
Total Phosphorus		1.0
<i>E. Coli</i>	Monthly Geometric Mean Density	200 CFU*/100 millilitre
pH	Single Sample Result	between 6.0 - 9.5 inclusive

*If the MPN method is utilized for *E. coli* analysis the limit shall be 200 MPN/100 millilitre.

Loading Limits

Final Effluent Parameter	Averaging Calculator	Loading Limit (kilograms per day and maximum unless otherwise indicated)
CBOD5	Annual Average Daily Effluent Loading	10.3
Total Suspended Solids		10.3
Total Phosphorus		0.34

Schedule C

Monitoring Program

Influent - Influent sampling point (see Page 2)

Parameters	Sample Type	Minimum Frequency
BOD5	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Phosphorus	Grab	Monthly

Final Effluent - Final Effluent sampling point (see Page 3)

Parameters	Sample Type	Minimum Frequency
CBOD5	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Phosphorus	Grab	Monthly
<i>E. Coli</i>	Grab	Weekly
pH	Grab/Probe/Analyzer	Monthly

Schedule D

Methodology for Calculating and Reporting Monthly Geometric Mean Density

Geometric mean is defined as the n^{th} root of the product of n numbers. In the context of calculating Monthly Geometric Mean Density for *E. coli*, the following formula shall be used:

$$\sqrt[n]{x_1 x_2 x_3 \cdots x_n}$$

in which,

" n " is the number of samples collected during the calendar month; and

" x " is the value of each Single Sample Result.

For example, four weekly grab samples were collected and tested for *E. coli* during the calendar month. The *E. coli* densities in the Final Effluent were found below:

Sample Number	<i>E. coli</i> Densities* (CFU/100 mL)
1	10
2	100
3	300
4	50

The Geometric Mean Density for these data:

$$\sqrt[4]{10 \times 100 \times 300 \times 50} = 62$$

*If a particular result is zero (0), then a value of one (1) will be substituted into the calculation of the Monthly Geometric Mean Density. If the MPN method is utilized for *E. coli* analysis, values in the table shall be MPN/100 mL.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).
1344-BU5JLT issued on October 26, 2020.**

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land Tribunal within 15 days after receipt of this notice, require a hearing by the Tribunal. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

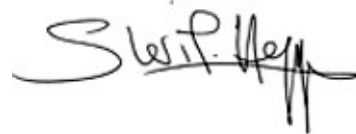
and

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

* Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.gov.on.ca

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

DATED AT TORONTO this 24th day of September, 2024



Sherif Hegazy, P.Eng.

Director

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

SW/

c: District Manager, MECP Owen Sound District Office
Eric Watkin, Tatham Engineering Limited