

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 7061-DBCR8F
Issue Date: December 5, 2024

Osgoode Care Centre
7650 Snake Island Road, Metcalfe,
Ontario, K0A 2P0

Site Location: 7650 Snake Island Road, Metcalfe
City of Ottawa,
Ontario, K0A 2P0,

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:

amendment of existing ECA#6186-5DMMKSE for re-rating and establishment of Works for the treatment of sanitary sewage and subsurface disposal of treated effluent from the expanded Osgoode Care Centre at the above site location, rated at a Maximum Daily Flow of 72,000 litres per day consisting of the following:

Proposed Works:

1. TRASH TANK #1 (TT#1): One (1) trash tank positioned to receive raw wastewater via gravity from the exiting 2001 addition building; is one (1) single compartment Boyd Bros concrete tank having a working capacity of 9,400 litres. The inlet of the tank is equipped with a PVC baffle and the outlet of the tank is to be equipped with a PVC baffle, discharging by gravity into the pump chamber described below;
2. PUMP CHAMBER #1 (PC#1): one (1) single compartment Boyd Bros concrete tank having a working capacity of 4,500 litres. The tank is equipped with a PVC baffle at the inlet pipe and two (2) submersible sewage grinder pumps (described below), operating on alternating demand, discharging into the anaerobic digester tanks as described later on;
3. GRINDER PUMPS: two (2) Liberty LSG202M submersible grinder pumps. Each pump is rated for a discharge of 186 L/min against 13.1 m total dynamic head (TDH). Pump settings are to be controlled by a Waterloo Smart Panel.
4. TRASH TANK #2 (TT#2): One (1) tank positioned to receive raw wastewater via gravity from the proposed sanitary sewer exiting the building; is a single compartment Boyd Bros concrete tank having a

working capacity of 23,000 litres. The inlet of the tank is equipped with a PVC baffle and the outlet of the tank is to be equipped with a PVC baffle, discharging by gravity into a pump chamber described later on;

5. OIL SEPARATOR (OS#2): One (1) oil separator consisting of triple compartment Boyd Bros concrete tank having a working capacity of 9,400 litres. The inlet of the tank is equipped with a PVC baffle and the outlet of the each compartment to be equipped with a PVC baffle, discharging by gravity into a pump chamber 2 described below;

6. PUMP CHAMBER #2 (PC#2): one (1) single compartment Boyd Bros concrete tank having a working capacity of 9,400 litres. The tank is equipped with a PVC baffle at the inlet pipe and two (2) submersible sewage grinder pumps (described below), operating on alternating demand, discharging into the anaerobic digester tanks as described later on;

7. GRINDER PUMPS: two (2) Liberty LSG202M submersible grinder pumps, each pump is rated for a discharge of 189 L/min against 8.8 m total dynamic head (TDH), and are to be controlled by a Waterloo Smart Panel.

8. TRASH TANK #3 (TT#3) - Temporary: One (1) tank positioned to receive raw wastewater via gravity from the existing sanitary sewer exiting the building and is a single compartment Boyd Bros concrete tank having a working capacity of 34,000 litres. The inlet of the tank is equipped with a PVC baffle and the outlet of the tank is to be equipped with a PVC baffle, discharging by gravity into the pump chamber 3 described below;

9. PUMP CHAMBER #3 (PC#3): one (1) single compartment Boyd Bros concrete tank having a working capacity of 9,400 litres. The tank is equipped with a PVC baffle at the inlet pipe and two (2) submersible sewage grinder pumps as described below, operating on alternating demand, discharging into the anaerobic digester tanks as described later on;

10. GRINDER PUMPS: two (2) Liberty LSG202M submersible grinder pumps, each rated for a discharge of 189 L/min against 10.9 m total dynamic head (TDH) and are to be controlled by Waterloo Smart Panel.

11. ANAEROBIC DIGESTER TANKS (AD#1, AD#2, AD#3, AD#4): four (4) single compartment concrete Boyd Bros concrete tanks each having a working capacity of 45,000 litres. The anaerobic digester tanks are to be arranged in series, the inlet of each tank is to be equipped with an inner tube, the outlet of AD#1, AD#2 and AD#3 are to be equipped with a PVC Tee baffle. The outlet of AD#4 is to be equipped with four (4) Polylok PL-525 effluent filters, discharging by gravity into the pump tanks described below;

12. PUMP TANKS (PT#1 & PT#2): two (2) single compartment Boyd Bros concrete tanks, each having a working capacity of 34,000 litres. Tanks are to be connected at the bottom for a combined total working capacity of 68,000 litres. The PT#1 is to be equipped with two (2) submersible effluent pumps (as described below), operating on an alternating timer and discharging to the basket biofilter tanks described later on;

13. EFFLUENT PUMPS: two (2) Liberty FL102M-2 1hp submersible effluent pumps, each rated for a discharge of 300 L/min against 13.5 m total dynamic head (TDH), and are to be controlled by Waterloo Smart Panel.

14. WATERLOO BIOFILTER BASKET TANKS (BT#1, BT#2, BT#3, BT#4, BT#5, & BT#6): six (6) single compartment Boyd Bros concrete tanks, each having a working capacity of 34,000 litres; the tanks to house two (2) wire baskets, each filled with 11.4 m³ of biofilter medium. The Tanks BT#2, BT#3, BT#4, BT#5 and BT#6 also to house two (2) closed loop baskets, each filled with 2.7 m³ of biofilter medium. The effluent from the pump tanks is evenly distributed over the surface of the foam medium in the 11.4 cubic metre baskets and treated as it trickles through the interior of the medium. The biofilter tanks are connected by bottom drains, with the effluent collecting on the floor of biofilter tank BT#1. Biofilter tank BT#1 is equipped with two (2) recirculation effluent pumps (described below) operating on separate timers and two (2) disposal effluent pumps operating on one (1) timer and discharge to the WaterNOx-LS tanks described later on;

15. EFFLUENT RECIRCULATION PUMPS: two (2) submersible simplex effluent pumps, one (1) for the closed loop 2.3 cubic metre baskets and one (1) for recirculation, and are Liberty FL102M-2 1hp pump and is rated for a discharge of 310 L/min against 12.5 m total dynamic head (TDH), that pumps a maximum of 15,000 L/day to two (2) baskets, each filled with 2.7 m³ of biofilter medium in biofilter tanks #2, #3, #4, #5 and #6. The recirculation pump is be a Liberty 280HV-2 0.5hp and is rated for a discharge of 182 L/min against 4.5 m total dynamic head (TDH) and pumps a portion (percentage is variable and to be determined during operation) of the treated effluent to the inlet of anaerobic digester tank #1 (AD#1), and all are controlled by the Waterloo Biofilter.

16. EFFLUENT DISPOSAL PUMPS: two (2) Liberty 280HV-2 0.5hp submersible effluent pumps. Each pump is rated for a discharge of 196 L/min against 4.0 m total dynamic head (TDH), to discharge into WaterNOx-LS tanks #1 and #2 and are to be controlled by a Waterloo Smart Panel.

17. WATERNOx-LS TANKS (WN#1, WN#2): two (2) single compartment Boyd Bros concrete tanks each tank having a working capacity of 45,000 litres, and is filled with denitrifying medium, discharging by gravity into the Polishing Basket Biofilter tank as described below;

18. POLISHING BIO-FILTER TANK (PBT#1): one (1) single compartment Boyd Bros concrete tank having a working capacity of 34,000 litres. The tank is equipped with a 2.3 m³ polishing basket, with the effluent from the WaterNOx-LS tanks draining ovetop of the basket by gravity and two (2) submersible effluent pumps (as described below) operating on sepearate timer, one (1) discharging into the close loop tank and pump (2) discharging into the disposal tank as described below:

19.CLOSE LOOP WATERNOx-LS TANK (WN #3):one (1) single compartment Boyd Bros concrete tank having a working capacity of 23,000 litres. The tank is filled with denitrifying medium to discharge via gravity back into the polishing tank as described earlier;

20. DISPOSAL TANKS (DT#1 AND DT#2): two (2) single compartment Boyd Bros concrete tanks, each having a working capacity of 41,000 litres, and positioned to receive effluent via forcemain from

PT#3. The total combined working capacity of the disposal tanks is to be approximately one (1) day retention time for the uneven incoming sewage flow throughout the day and to allow the proposed leaching bed to be dosed on an even basis throughout a 24-hour period. The tank DT#1 is to be equipped with four (4) submersible effluent pumps (as described below) operating alternating, complete with flow meter and timer controlled and discharging to the leaching bed as described later on;

21. EFFLUENT DISPOSAL PUMPS: four (4) Liberty FL102M-2 1hp submersible effluent pumps, each connected to two (2) zones via a rotating distribution valve. During a pumping event two (2) pumps will operate for the specified time and each will dose one (1) zone. During the next pumping event the rotating valve will rotate to allow the next zone to be dosed and so on. Each pump is rated for a discharge of 257 L/min against 16.7 m total dynamic head (TDH); located in the control building complete with chemical disposal and metering pumps;

22. FORCEMAINS TO LEACHING BED: Four (4) 50 mm diameter polyethylene (PE) pipes transfer the effluent from the disposal tank (DT#1) to the rotating distribution valves and to the leaching bed, complete with Rigid DOW SM insulation (or equivalent), to be 50mm thick and 2.40 metres wide, placed directly wrapped over the PE forcemains.

23. ROTATING DISTRIBUTION VALVES: Four (4) K-Rain 6400 series rotating distribution valves are to be installed, and each to be connected to two (2) leaching bed zones.

24. LEACHING BED: a pressurized shallow buried trench (SBT) leaching bed, designed for 72, 000 Litres/day consisting of 1,440 m of distribution piping constructed in eight (8) zones, with each zone having six (6) runs of thirty (30) m lengths with the runs spaced 2.0 m apart. The runs are to consist of 38 mm diameter PVC piping with 3mm orifices drilled at 12 o'clock throughout the length of the run and spaced 1.5 m apart. including drain holes, spaced 3 m apart; all on a 1200 mm deep layer of imported sand with a percolation rate, $T = 6 - 8 \text{ min/cm}$, overlaid with 100 mm layer of washed septic stone, on the entire distribution area. Next the 38mm PVC distribution piping network is placed on the washed septic stone. The distribution piping is then covered with Quick 4 Plus EQ 24 Low Profile Chambers and then a non-woven geotextile (Terrafix 200R) is placed over the chambers and septic stone layer. Next, a 300mm layer of sand fill is used to backfill the leaching bed, which is overlain with 150mm of topsoil to the design finish grade elevation. The finished grading is to be completed with hydroseeding to prevent erosion and establish grass growth. The final grade over the disposal field must provide positive drainage; including

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

Works to be Abandoned:

Existing Sewage works consisting of a two-compartment concrete septic tank, one equalization tank, a pumping chamber, a sewage treatment package plant consisting of an aeration tank, a clarifier tank, a post clarifier tank, a pumping chamber and a subsurface sewage disposal leaching beds with approximately 600m long pipes;

all in accordance with the submitted supporting documents listed in **Schedule A**.

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

1. "Approval" means this entire document and any schedules attached to it, and the application;
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. "Commissioned" means the construction is complete and the system has been tested, inspected, and is ready for operation consistent with the design intent;
5. "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;
6. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
7. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
8. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
9. "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;
10. "Licensed Engineering Practitioner" means a person who holds a licence, limited licence or temporary licence under the *Professional Engineers Act*, R.S.O. 1990, c. P.28;
11. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;
12. "Maximum Daily Flow" means the largest volume of flow to be received during a one-day period for which the Works is designed to handle;
13. "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;
14. "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;

15. "Owner" means Osgoode Care Centre and its successors and assignees;
16. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40, as amended;
17. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
18. "Works" means the approved sewage works, and includes Proposed 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. EXPIRY OF APPROVAL

1. 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.
2. In the event that completion and commissioning of any portion of the Works is anticipated to be more than five (5) years, the Owner shall submit an application for extension at least **twelve (12) months** prior to the end of the five (5) years from the day of issuance of this Approval. The application shall include the reason(s) for the delay, whether there is any design change(s) and a review of whether the standards applicable at the time of Approval of the Works are still applicable at the time of request for extension, to ensure the ongoing protection of the environment.

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 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.B17 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. C39 shall be included in the notification.
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 of this Approval.

4. CONSTRUCTION

1. The Owner shall ensure that the construction of the Works is supervised by a Licensed Engineering Practitioner.
2. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.
3. The Owner shall ensure that the Waterloo Biofilter treatment system is installed in accordance with the manufacturer's installation manual.
4. The Owner shall ensure that an imported soil that is required for construction of any subsurface disposal bed as per this Approval is tested and verified by a Licensed Engineering Practitioner for the percolation time (T) prior to delivering to the site location and the written records are kept at the site.
5. Within **six (6) months** of the Works being Commissioned, the Owner shall prepare a statement, certified by a Licensed Engineering Practitioner that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff.
6. Within **six (6) months** of the Works being Commissioned, 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 purpose 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. 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 Ground-water Monitoring Table included in **Schedule B**.
5. Prior to the startup of the Works, background ground-water quality must be established by collecting ground-water samples and having them analyzed for the parameters listed in the Ground-water Monitoring Table included in **Schedule B**.
6. The Owner shall employ measurement devices to accurately measure quantity of effluent being discharged to each individual subsurface disposal bed, 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 bed
7. The Owner shall ensure that the flow of treated effluent discharged into the subsurface disposal bed does not exceed 72,000 litres per day.
8. 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 Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater Version 2.0" (January 2016), PIBS 2724e02, as amended; and

- c. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.
9. 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 design and undertake everything practicable to operate the Works in accordance with the Final Effluent parameters design objectives listed in the table(s) included in **Schedule B**.
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**.
 - b. The annual average concentrations of Total Ammonia Nitrogen (TAN) named in Column 1 of Effluent Objectives Table listed in **Schedule B**, should be compared to the corresponding concentration set out in Column 2 of Effluent Objectives Table listed in **Schedule B**.

7. OPERATIONS AND MAINTENANCE

1. The Owner shall ensure that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Approval are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate staffing and training, including training in all procedures and other requirements of this Approval and the OWRA and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.
2. The Owner shall prepare an operations manual within **six (6) months** of the introduction of sewage to the Works, that includes, but not necessarily limited to, the following information:
 - a. operating procedures for routine operation of all the Works;
 - b. inspection programs, including frequency of inspection, for all the Works and the methods or tests employed to detect when maintenance is necessary;
 - c. repair and maintenance programs, including the frequency of repair and maintenance for all the Works; copies of maintenance contracts for any routine inspections and pump-outs should be included for all the tanks and treatment units;
 - d. procedures for the inspection and calibration of monitoring equipment;

- e. a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the Spills Action Centre (SAC) and District Manager; and
 - f. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
- 3. The Owner shall maintain an up to date operations manual and make the manual readily accessible for reference at the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
- 4. The Owner shall, upon completion of construction, prepare and make available for inspection by Ministry staff, a maintenance agreement with the manufacturer for the treatment process/technology or its authorized agent. The maintenance agreement must be retained at the site and kept current for the operational life of the Works.
- 5. The Owner shall ensure that all septic tanks are pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filters are cleaned out at minimum once a year or more often if required.
- 6. The Owner shall ensure that 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).
- 7. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal bed(s), and that adequate steps are taken to ensure that the area of the underground Works is protected from vehicle traffic.
- 8. The Owner shall visually inspect the general area where Works are located for break-out once every month during the operating season.
- 9. In the event a break-out is observed from a subsurface disposal bed, the Owner shall do the following:
 - a. sewage discharge to that subsurface disposal system shall be discontinued;
 - b. the incident shall be **immediately** reported verbally to the Spills Action Centre (SAC) at (416) 325-3000 or 1-800-268-6060;
 - c. submit a written report to the District Manager within **one (1) week** of the break-out;
 - d. access to the break-out area shall be restricted until remedial actions are complete;
 - e. during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to the environment; and

- f. sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.
- 10. 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.)
- 11. 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 operations 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 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 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 the performance of the Works, including all treatment units and subsurface disposal beds;
 - c. a description of any operating problems encountered and corrective actions taken for 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 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 subsurface

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 Flow discharged into each one of the subsurface disposal system;
- g. a summary and interpretation of groundwater monitoring data including shallow ground-water flow direction, interpretation of analytical results and comparison with the compliance limit of 2.5 milligrams per litre for Nitrates concentration in accordance with the Reasonable Use Policy;
- h. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- i. a summary of all spill or abnormal discharge events;
- j. any other information the District Manager requires from time to time;

9. DECOMMISSIONING OF UN-USED WORKS

- 1. The Owner shall properly abandon any portion of unused existing 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 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.

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.
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 Works.
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.

Schedule A

1. Application for Environmental Compliance Approval submitted by Kaleb Lakew, P.Eng., of Kollaard Associates Inc., dated March 7, 2024 and revised on September 27, 2024 for the proposed Sewage Treatment System, including Environmental Study Report, design report, final plans and specifications
2. Application for Approval of Municipal and Private Sewage Works, dated May 3, 2002, submitted by Murray Munro of the Township of Osgood Care Centre.
3. A letter addressed to Mr. Mohamed Dhalla, Director-Section 53 (OWRA) dated May 3, 2002, requesting Amendment to current Certificate of Approval and supporting documentation submitted by The Thompson Rosemount Group.

Schedule B

Influent Monitoring Table-1

Sampling Location	upstream of the Waterloo Biofilter Treatment System
Frequency	Quarterly
Sample Type	Grab
Parameters	BOD ₅ Total Suspended Solids (TSS) Total Kjeldahl Nitrogen (TKN)

Effluent Monitoring Table-2

Sampling Location	on discharge from the final Treatment System upstream of the subsurface disposal bed
Frequency	Once a month
Sample Type	Grab
Parameters	CBOD ₅ Total Suspended Solids (TSS) Total Ammonia Nitrogen (TAN) Nitrate Nitrogen Nitrite Nitrogen Total Kjeldahl Nitrogen (TKN) pH Temperature (ambient and wastewater)

Ground-water Monitoring Table-3

Sampling Location	MW1 and MW2 (at downgradient monitoring wells)
Frequency	Quarterly
Sample Type	Grab
Parameters	Nitrate - Nitrogen Nitrite - Nitrogen Total Ammonia Total Kjeldahl Nitrogen (TKN) Ground-water levels in MW1, MW2 and MW3.

Effluent Objectives Table-4

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
Total Ammonia Nitrogen (TAN)	5

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).
6186-5DMKSE issued on September 18, 2002**

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

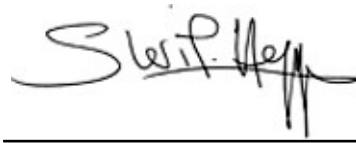
The Director appointed for the purposes of Part II.1 of the
Environmental Protection Act
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** 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 5th day of December, 2024

A handwritten signature in black ink, appearing to read 'Sherif Hegazy', written over a horizontal line.

Sherif Hegazy, P.Eng.

Director

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

MN/

c: District Manager, DWECD, MECP Ottawa
Kaleb Lakew, P.Eng., Kollaard Associates Inc.