ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 8517-CDEM2W
Issue Date: July 17, 2025

Thousand Island Campground Incorporated
85 Edgewater Lane
Leeds and the Thousand Islands, Ontario
K0E 1L0

Site Location: 1000 Islands/Ivy Lea KOA
85 Edgewater Lane
Township of Leeds and the Thousand Islands, United Counties of Leeds and Grenville, Ontario
K0E 1L0

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:

Existing Works described below and establishment, usage and operation of new non-municipal Proposed Works, for the treatment of sanitary sewage from 1000 Island/IVY Lea KOA at the above Site Location and disposal of treated effluent to subsurface via a Sewage Treatment Plant (BNA iQ.MBBR™ Wastewater Treatment System) and Final Effluent disposal facilities as follows:

Classification of Sewage Treatment Plant: Secondary

Details of Service Area:

- **Type of Occupancy**: Commercial - Seasonal Campground, operating from May to October
- **Type and Number of Units:**
  - one hundred and thirteen (113) existing RV camping sites, consisting of seventy-four (74) fully serviced sites and thirty-nine (39) partially serviced sites;
  - ten (10) existing cabins, consisting of five (5) fully serviced cabins and five (5) partially serviced cabins;
  - fifteen (15) existing tent sites;

- two (2) existing dump stations; and
- one (1) existing office/store;

Design Capacity of Sewage Treatment Plant:

Design Capacity with All Treatment Trains in Operation	Upon Completion of Construction of All Proposed Works
Maximum Daily Flow	58,725 litres per day
Balanced Daily Flow (after flow balancing by the Proposed Flow Equalization Tank)	45,780 litres per day

Influent and Imported Sewage

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

PROPOSED WORKS:

Sewage Treatment Plant - Moving Bed Biofilm Reactor (BNA iQ.MBBR™) Wastewater Treatment System

Flow Equalization Tanks (EQT)

- two (2) proposed in-ground precast concrete equalization tanks, connected in series, each having a minimum working volume of approximately 30 cubic metres, with the second tank equipped with a liquid level control system and two (2) sewage pumps (one duty, one standby), receiving sewage effluent from the existing septic tanks described below, discharging effluent to Sludge Storage Tank 1 (SS1) described below via a forcemain;

Influent Sampling Point

- sampling of Influent from the Flow Equalization Tank (EQT);

Primary Treatment System

- two (2) proposed in-ground precast concrete Sludge Storage Tanks 1 & 2 (SS1 & SS2), connected in series, each having a minimum working volume of approximately 39 cubic metres, with Sludge

Storage Tank 1 (SS1) receiving effluent from the Flow Equalization Tank (EQT) described above, nitrified effluent recycle flow from the Aerobic Bioreactor 2 (BR2) and sludge from the Secondary Clarifier (SC) and Tertiary Clarifier (TC) described below, discharging effluent from Sludge Storage Tank 2 (SS2) by gravity to the Primary Clarifier (PC) described below;

- one (1) proposed in-ground precast concrete Primary Clarifier (PC), having a minimum working volume of approximately 23 cubic metres and an approximate minimum specified surface area of 11 square metres, receiving effluent from the Sludge Storage Tank 2 (SS2) described above, discharging effluent by gravity to the Aerobic Bioreactor 1 (BR1) described below;

- sludge accumulated in the Sludge Storage Tanks (SS1 & SS2) and Primary Clarifier (PC) shall be periodically removed for off-site disposal at a Ministry approved receiving facility;

Secondary Treatment System

- one (1) proposed in-ground Aerobic Bioreactor 1 (BR1), having a minimum working volume of approximately 22 cubic metres, equipped with fine bubble diffusers installed longitudinally on one side of the reactor and one (1) air blower rated at minimum 95 normal cubic metres per hour, receiving effluent from the Primary Clarifier (PC) and discharging by gravity to Aerobic Bioreactor 2 (BR2) as described below;

- one (1) proposed in-ground Aerobic Bioreactor 2 (BR2), having a minimum working volume of approximately 22 cubic metres, equipped with fine bubble diffusers installed longitudinally on one side of the reactor, one (1) air blower rated at minimum 95 normal cubic metres per hour and one (1) effluent recirculation pump that discharges nitrified effluent recycle flow from Aerobic Bioreactor 2 (BR2) to Sludge Storage Tank 1 (SS1), receiving effluent from Aerobic Bioreactor 1 (BR1) as described above and discharging by gravity to the proposed Secondary Clarifier (SC) as described below;

    - Proposed Aerobic Bioreactor 1 (BR1) and Aerobic Bioreactor 2 (BR2) shall contain a minimum combined volume of 16 cubic metres of engineered plastic carrier media providing minimum 8,000 square metres of media surface area;

- one (1) proposed Secondary Clarifier (SC) with a hopper bottom, having a minimum working volume of approximately 7 cubic metres and a minimum specified surface area of approximately 4 square metres, equipped with a sludge return pump and a floating sludge (skimmer) pump that discharge sludge into Sludge Storage Tank 1 (SS1), receiving effluent from Aerobic Bioreactor 2 (BR2), discharging by gravity to the Anoxic Bioreactor (ABR) described below;

Post-Secondary Treatment System

- one (1) proposed in-ground Anoxic Bioreactor (ABR) for tertiary denitrification, having a minimum working volume of approximately 10 cubic metres and containing a minimum volume of 4.5 cubic metres of engineered plastic carrier media providing 2,250 square metres

of media surface area, equipped with coarse bubble diffusers installed along one side of the reactor and three (3) air blowers, receiving effluent from the Secondary Clarifier (SC), discharging by gravity to the Aerobic Bioreactor 3 (BR3) described below;

- one (1) proposed in-ground Aerobic Bioreactor 3 (BR3) for tertiary polishing, having a minimum working volume of approximately 9 cubic metres and containing a volume of 3.1 cubic metres of engineered plastic carrier media providing 1,550 square metres of media surface area, equipped with fine bubble diffusers installed longitudinally on one side of the reactor and three (3) blowers each rated at minimum 10 normal cubic metres per hour, receiving effluent from the Anoxic Bioreactor (ABR), discharging by gravity to the Tertiary Clarifier (TC) described below;

- one (1) proposed Tertiary Clarifier (TC) with a hopper bottom, having a minimum working volume of approximately 6 cubic metres and a minimum specified surface area of approximately 4 square metres, equipped with a sludge return pump and a floating sludge (skimmer) pump that discharge sludge into Sludge Storage Tank 1 (SS1), receiving effluent from the Aerobic Bioreactor 3 (BR3), discharging by gravity to the Effluent Pump Tank (EPT) described below;

Effluent Pump Tank (EPT)

- one (1) proposed Effluent Pump Tank (EPT), having a minimum working volume of approximately 18 cubic metres, equipped with a liquid level control system with high level visual/audible alarms and two (2) submersible effluent pumps (one duty, one standby), receiving effluent from the Tertiary Clarifier (TC) and discharging to the proposed Final Effluent disposal facilities described below via forcemains;

Supplementary Treatment System

- one (1) proposed carbon dosing system for denitrification, consisting of one (1) chemical storage tank with secondary containment, two (2) chemical dosing pumps and two (2) chemical flow meters, etc., dosing carbon material into Sludge Storage Tank 1 (SS1) and the Anoxic Bioreactor (ABR);

Final Effluent Flow Measurement and Sampling Point

- Final Effluent flow measurement via two (2) flow meters on the effluent pipe within the Controls Building;

- sampling of Final Effluent from the Effluent Pump Tank (EPT) prior to discharge to the Final Effluent disposal facilities;

Final Effluent Disposal Facilities

Shallow Buried Trench Leaching Bed #1 Q = 24,000 litres per day

- one (1) proposed raised shallow buried trench leaching bed, located towards the north end of the developed area (east of Campsites #130 and 131), consisting of a total of 322 metres of 38 millimetre diameter pressurized distribution piping constructed in a single cell, having eleven (11) runs of 29.28 metre long distribution piping spaced 2.0 metres apart, complete with 3 millimetre diameter spray orifices drilled at 12 o'clock throughout the length of the run and spaced approximately 0.9 metres apart, as well as drain holes drilled at 6 o'clock throughout the length of the run spaced at 3.0 metres apart and covered with orifice shields; the distribution piping in the cell is to be contained within Infiltrator Quick4 Equalizer 36 chambers with a bottom width of 0.56 metres (or Equivalent Equipment), overlying a 300 millimetre thick layer of imported sand with a percolation rate (T) of 8 to 15 minutes per centimetre between the bottom of the chambers and the native soil (providing a minimum separation distance of 900 millimetres between the bottom of the chambers and bedrock or high groundwater table), and backfilled with a 600 millimetre thick sand layer with the same percolation rate as above and then a 100 millimetre thick topsoil layer to the design finish grade elevation;

Shallow Buried Trench Leaching Bed #2 Q = 21,780 litres per day

- one (1) proposed raised shallow buried trench leaching bed, located towards the east end of the developed area (east of Tent Sites #T16 and T18), consisting of a total of 293 metres of 38 millimetre diameter pressurized distribution piping constructed in two (2) cells, **each** having five (5) runs of 29.28 metre long distribution piping spaced 2.0 metres apart, complete with 3 millimetre diameter spray orifices drilled at 12 o'clock throughout the length of the run and spaced approximately 0.9 metres apart, as well as drain holes drilled at 6 o'clock throughout the length of the run spaced at 3.0 metres apart and covered with orifice shields; the distribution piping in the cell is to be contained within Infiltrator Quick4 Equalizer 36 chambers with a bottom width of 0.56 metres (or Equivalent Equipment), overlying a 300 millimetre thick layer of imported sand with a percolation rate (T) of 8 to 15 minutes per centimetre between the bottom of the chambers and the native soil (providing a minimum separation distance of 900 millimetres between the bottom of the chambers and bedrock or high groundwater table), and backfilled with a 600 millimetre thick sand layer with the same percolation rate as above and then a 100 millimetre thick topsoil layer to the design finish grade elevation;

EXISTING WORKS:

Dumping Stations

- existing Dumping Station #2, located southwest of the office/store, receiving raw sewage from RVs/trailers and discharging to the existing Dumping Station #1 as described below;

- existing Dumping Station #1, located north of the dog wash station, receiving raw sewage from RVs/trailers and Dumping Station #2, and discharging to the existing Septic Tank #1 as described

below;

Septic Tanks (Campground)

- existing Septic Tank #1, located north of the dog wash station and immediately downstream of Dumping Station #2, having a working capacity of approximately 38,000 litres, receiving raw sewage from the office/store, Dumping Station #1, dog wash station, serviced campsites (except Campsites #1 through #7 and Cabin #DC5) and effluent from the existing Septic Tank #2 as described below, discharging to the proposed Sewage Treatment Plant as described above;

- existing Septic Tank #2, located immediately west of Cabin #DC5, having a working capacity of approximately 5,000 litres, receiving raw sewage from Campsites #1 through #7 and Cabin #DC5, discharging to the existing Septic Tank #1 as described above;

Subsurface Sewage Disposal System (House) **Q = 1,100 litres per day**

one (1) existing subsurface sewage disposal system servicing a two-bedroom residential house located near the site entrance, rated at a Maximum Daily Flow of 1,100 litres per day, consisting of the following:

- existing Septic Tank #3, located west of the house, having a working capacity of approximately 5,000 litres and to be upgraded with an OBC compliance effluent filter, receiving raw sewage from the house and discharging to the existing filter bed as described below;

- existing filter bed, located immediately west of Septic Tank #3, having four (4) runs of approximately 5 metre long distribution piping;

Leaching Beds #1 and #2 (Campground) - TO BE DECOMMISSIONED

- existing leaching beds #1 and #2 servicing the campground, located towards the west end of the developed area along the west property boundary, to be decommissioned in accordance with Condition 10;

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. "Approval" means this entire Environmental Compliance Approval and any Schedules attached to it;

2. "BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demands;

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.1 of the EPA;

5. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;

6. "EASR" means the Environmental Activity and Sector Registry.

7. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19;

8. "Equivalent Equipment" means alternate piece(s) of equipment that meets the design requirements and performance specifications of the piece(s) of equipment to be substituted;

9. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;

10. "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);

11. "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;

12. "Influent" means flows to the Sewage Treatment Plant from the collection system;

13. "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;

14. "Maximum Daily Flow" means the largest volume of flow to be received during a one-day period for which the sewage treatment process unit or equipment is designed to handle;

15. "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;

16. "Normal Operating Condition" means the condition when all unit process(es), excluding Preliminary Treatment System, in a treatment train is operating within its design capacity;

17. "OBC" means the Ontario Building Code, Ontario Regulation 163/24 (Building Code) as amended to January 1, 2025, made under the Building Code Act, 1992 , S.O. 1992, c. 23;

18. "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;

19. "Owner" means Thousand Island Campground Incorporated, including any successors and assignees;

20. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40;

21. "Preliminary Treatment System" means all facilities in the Sewage Treatment Plant associated with screening and grit removal;

22. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;

23. "Seasonal Average Effluent Concentration" means the arithmetic mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured, or both, during a seasonal discharge period;

24. "Secondary Treatment System" means all facilities in the Sewage Treatment Plant associated with biological treatment, secondary sedimentation and phosphorus removal unit processes;

25. "Sewage Treatment Plant" means all the facilities related to sewage treatment within the sewage treatment plant site excluding the Final Effluent disposal facilities;

26. "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;

27. "Site Location" means 85 Edgewater Lane in the Township of Leeds and the Thousand Islands, United Counties of Leeds and Grenville, Ontario K0E 1L0;

28. "Works" means the approved sewage works, and includes Proposed Works and Existing Works.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the 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. CONSTRUCTION OF PROPOSED WORKS

1. All Proposed Works in this Approval shall be constructed and installed and must commence operation within **five (5) years** of issuance of this Approval, after which time the Approval ceases to apply in respect of any portions of the Works not in operation. In the event that the construction, installation and/or operation of any portion of the Proposed Works is anticipated to be delayed beyond the time period stipulated, the Owner shall submit to the Director an application to amend the Approval to extend this time period, at least six (6) months prior to the end of the period. The amendment application shall include the reason(s) for the delay and whether there is any design change(s).

2. Upon completion of construction of the Proposed Works, the Owner shall prepare and submit a written statement to the District Manager, certified by a Licensed Engineering Practitioner, that the Proposed

Works is constructed in accordance with this Approval.

3. **One (1) week** prior to the commencement of the operation of the Proposed Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.

4. Within **one (1) year** of completion of construction of the Proposed Works, a set of record drawings of the Works shall be prepared or updated. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be readily accessible for reference at the Site Location.

5. The Owner shall ensure that the treatment technologies are installed in accordance with the manufacturer's installation manual.

6. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.

7. The Owner shall ensure that any imported soil required for construction of any subsurface disposal bed as per this Approval is tested and verified by the Licensed Engineering Practitioner for the percolation time (T) prior to delivering to the Site Location and the written records are kept at the Site Location.

4. DESIGN OBJECTIVES

1. The Owner shall design and undertake everything practicable to operate the Sewage Treatment Plant in accordance with the Final Effluent parameters design objectives listed in the table(s) included in **Schedule B**.

5. 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 C** are met.

2. The Owner shall report to the District Manager orally **as soon as possible** any non-compliance with the compliance limits specified in **Schedule C**, and in writing within **seven (7) days** of non-compliance.

3. Within **seven (7) days** of any non-compliance with the compliance limits specified in **Schedule C**, the Owner shall implement associated contingency measures specified in the contingency plan referenced as Item 2 in **Schedule A**.

6. GROUNDWATER TRIGGER MECHANISM

1. The owner shall ensure the Site Location is in compliance with Reasonable Use Guideline B-7.

2. Within **seven (7) days** of an exceedance of Guideline B-7 detected in any monitoring well identified in **Schedule D**, the Owner shall do the following:

a. notify the District Manager in writing of the exceedance; and

b. collect a confirmatory sample from the same monitoring well(s) and submit it to an accredited laboratory for re-analysis of nitrate nitrogen, nitrite nitrogen and total ammonia nitrogen.

3. The Owner shall submit the laboratory report for the confirmatory sample specified in Subsection 2.b. to the District Manager upon receipt of the report.

4. The Owner shall forthwith implement associated contingency measures specified in the contingency plan referenced as Item 2 in **Schedule A** in the event that the confirmatory sample confirms the exceedance.

7. 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 prepare/update the operations manual for the Works within **six (6) months** of completion of construction of the Proposed 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 Site Location 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, upon the construction, prepare and make available for inspection by Ministry staff, a maintenance agreement with the manufacturer for the treatment process/technology. The maintenance agreement must be retained at the site and kept current for the operational life of the Works.

7. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal beds, 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 bed 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. access to the break-out area shall be restricted until remedial actions are complete;

    d. during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to the environment; and

    e. sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.

10. The Owner shall ensure that the septic tanks, Flow Equalization Tanks (EQT), and Sludge Storage Tanks (SS1 & SS2) are inspected **at least twice per year** by a qualified person, and the sewage sludge accumulated in the septic tanks, Flow Equalization Tanks (EQT) and Sludge Storage Tanks (SS1 & SS2)

be periodically withdrawn at the frequency required to maintain efficiency of the treatment system. The effluent filters in septic tanks shall be cleaned out at least once every six (6) months, when the tank is pumped out, or as determined by the Operating Agency, whichever comes first.

11. The Owner shall have a valid written agreement with a Ministry approved or EASR registered waste hauler for the transportation and disposal of the sludge generated from the Works, at all times during operation of the Works.

12. The Owner shall ensure that flow of effluent discharged into Shallow Buried Trench Leaching Bed #1 does not exceed **24,000 litres per day** and that discharged into Shallow Buried Trench Leaching Bed #2 does not exceed **21,780 litres per day**.

13. The Owner shall retain for a minimum of **five (5) years** from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Approval.

8. 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 D**(including Influent, Final Effluent, groundwater and sludge/biosolids) 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 the document referenced in Paragraph 2.b.

    c. definitions for frequency:

        i. Monthly means once every month during the operating season;

        ii. Annually means once every year;

    d. a schedule of the day of the 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 month for the scheduled sampling program.

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 or pumping rates;

   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.

9. REPORTING

1. 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.

2. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

3. The Owner shall prepare performance reports on a calendar year basis and submit to the District Manager in an electronic format by **January 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 flow data and results achieved in not exceeding the maximum design flows discharged into each subsurface disposal bed specified in Subsection 12 of Condition 7;

c. a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;

d. a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;

e. a summary and interpretation of groundwater monitoring data including shallow groundwater flow direction, interpretation of analytical results and an assessment of compliance with Guideline B-7;

f. a summary of all operating issues encountered and corrective actions taken;

g. 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;

h. a summary of any effluent quality assurance or control measures undertaken;

i. 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;

j. a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions when any of the design objectives is not achieved more than 50% of the time in a year or there is an increasing trend in deterioration of Final Effluent quality;

k. a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;

l. a summary of any complaints received and any steps taken to address the complaints;

m. a summary of all other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;

n. any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works;

o. any other information the District Manager requires from time to time.

10. DECOMMISSIONING OF UN-USED WORKS

1. The Owner shall properly abandon any portion of unused Existing Works, as directed below, and upon

completion, shall submit a written decommissioning report 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 Ministry approved or EASR registered waste 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 any purpose, all distribution pipes and surrounding material must be removed by a Ministry approved or EASR registered waste 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 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 construction of Proposed Works 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 design objectives is imposed to establish non-enforceable design objectives to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.

5. Condition 5 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.

6. Condition 6 regarding the groundwater trigger concentration is imposed to establish a specific groundwater quality trigger and to be used to develop and implement an action plan to deal with any exceedance of the

trigger concentration for nitrate nitrogen in the groundwater.

7. Condition 7 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.

8. Condition 8 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.

9. Condition 9 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.

10. Condition 10 is included to ensure that any components of un-used Works are properly decommissioned.

Schedule A

1. Application for Environmental Compliance Approval submitted by Thousand Island Campground Incorporated, dated August 10, 2021 and received on May 19, 2021 for the proposed onsite sewage treatment system, including the design report, final plans and all other supporting documentation.

2. Revised Design Brief, 1000 Islands/Ivy Lea KOA, dated July 14, 2025 and prepared by Groundwork Engineering limited, including a contingency plan (under Section 10.0).

Schedule B

Final Effluent Design Objectives
(Sewage Treatment Plant)

Final Effluent Parameter	**Averaging Calculator**	**Objective** (milligrams per litre unless otherwise indicated)
Total Inorganic Nitrogen (TIN)	Seasonal Average Effluent Concentration	8.0
pH	Single Sample Result	6.5 - 8.5 inclusive

Schedule C

Final Effluent Compliance Limits
(Sewage Treatment Plant)

Final Effluent Parameter	Averaging Calculator	Limit (milligrams per litre unless otherwise indicated)
CBOD5	Seasonal Average Effluent Concentration	10.0
Total Suspended Solids (TSS)	Seasonal Average Effluent Concentration	10.0
Total Inorganic Nitrogen (TIN)	Seasonal Average Effluent Concentration	10.0
pH	Single Sample Result	6.0 - 9.5 inclusive

Schedule D

Monitoring Program

Influent - Flow Equalization Tank (EQT)

Parameters	Sample Type	Minimum Frequency
BOD_5	8 hour composite	Monthly during operation season
Total Suspended Solids (TSS)	8 hour composite	Monthly during operation season
Total Kjeldahl Nitrogen (TKN)	8 hour composite	Monthly during operation season

Final Effluent - Effluent Pump Tank (EPT)

Parameters	Sample Type	Minimum Frequency
$CBOD_5$	8 hour composite	Monthly during operating season
Total Suspended Solids (TSS)	8 hour composite	Monthly during operating season
Nitrite Nitrogen	8 hour composite	Monthly during operating season
Nitrate Nitrogen	8 hour composite	Monthly during operating season
Total Ammonia Nitrogen (TAN)	8 hour composite	Monthly during operating season
Temperature	Grab/Probe/Analyzer	Monthly during operating season
pH	Grab/Probe/Analyzer	Monthly during operating season

Groundwater Monitoring Table

Sampling Location	All monitoring wells (MW#1, MW#2, MW#3, MW#4, MW#5, and MW#6)*
Frequency	three (3) times during operating season (spring, summer and fall)
Sample Type	Grab
Parameters	Water Level Nitrate Nitrogen Nitrite Nitrogen Total Ammonia Nitrogen (TAN) Sodium Chloride Total Phosphorus pH

Note* As shown in Dwg. C-102 "Septic Plan Proposed" in Appendix A of the revised Design Brief listed as Item 2 in **Schedule A**.

Sludge/Biosolids – Sludge Storage Tank

Parameters	Sample Type	Minimum Frequency
Total Solids	Grab	Annually
Total Phosphorus	Grab	Annually
Total Ammonia Nitrogen	Grab	Annually
Nitrate as Nitrogen	Grab	Annually
Metal Scan - Arsenic - Cadmium - Cobalt - Chromium - Copper - Lead - Mercury - Molybdenum - Nickel - Potassium - Selenium - Zinc	Grab	Annually

In accordance with Section 139 of the *Environmental Protection Act,* you may by written notice served upon me, the Ontario Land 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 ("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:

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

and

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

and

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

*** Further information on the 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**

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 17th day of July, 2025

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

SW/
c: District Manager, MECP Kingston District Office
Martin Burger, P.Eng, Groundwork Engineering Limited