

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 4960-D96J9W
Issue Date: November 6, 2024

Camp Can-Aqua Inc.
503 Beaver Lake Dr Box 70
Cardiff, Ontario
K0L 1M0

Site Location: Camp Can'Aqua
503 Beaver Lake Dr
Municipality of Highlands East, County of Haliburton
K0L 1M0

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:

sewage works for the collection, treatment and disposal of domestic sewage with a Maximum Daily Flow of 24,325 L/d, to service Camp Can'Aqua, a seasonal youth camp located at the above site location, consisting of the following

PROPOSED WORKS:

Proposed Class 4 Sewage Works (1,525 L/d), to replace existing Class 4 sewage system servicing the *existing Medical Centre/Office* , consisting of:

- One (1) in-ground infiltrator Advanced Treatment Leachfield (ATL) subsurface disposal bed consisting of 20 conduits and 77.8 square metres of system sand receiving flow from existing two-compartment pre-cast concrete septic tank described under Existing Works.

Proposed Class 4 Sewage Works (16,500 L/d), to service the *New Dining Hall* , consisting of:

- One (1) three-compartment precast grease interceptor tank with total working volume of 11,365 L and maximum flow rate of 139 L/min.
- Three (3) single compartment precast concrete tanks, each having a working capacity of 18,139 litres (total of 54,417 litres), the third tank in series being equipped with an effluent filter; discharging by gravity to the pump tank described below.

- One (1) single compartment precast concrete pump tank equipped with duplex submersible effluent pumps (0.75 hp or equivalent) capable of dosing 128 L/min within 15 minutes at a TDH of 10.6 m to the leaching bed described below.
- One (1) raised leaching bed (Infiltrator Equalizer36 Chamber) consisting of two cells, each having 10 runs of 23 leaching chambers (total of 460 leaching chambers each having a length of 1.22 metres) and having a footprint of 1,993 square metres.

EXISTING WORKS:

Existing Class 4 Sewage Works (1,525 L/d), to replace existing Class 4 sewage system servicing the ***existing Medical Centre/Office*** , consisting of:

- One (1) existing two-compartment pre-cast concrete septic tank equipped with effluent filter having a total capacity of 4,500 litres; to discharge by gravity to the proposed ATL subsurface disposal bed previously described under Proposed Works.
- One (1) single compartment pre-cast concrete septic tank having a total capacity of 4,500 litres; discharging by gravity to a septic bed of unknown dimensions (*to be decommissioned*).

Existing Class 4 Sewage Works (1,700 L/d) servicing the ***existing Centrale Washroom System*** , consisting of:

- One (1) two-compartment pre-cast concrete septic tank equipped with effluent filter having a total capacity of 13,500 litres; discharging by gravity to the septic bed described below.
- One (1) in-ground conventional leaching bed with 2 cells of 73 m of distribution pipe (total of 146 m).

Existing Class 4 Sewage Works (1,500 L/d) to service two ***existing one-bedroom Cabins*** , serving as the Assistant Director House, consisting of:

- One (1) two-compartment pre-cast concrete septic tank equipped with effluent filter having a total capacity of 3,600 litres; discharging by gravity to the septic bed described below.
- One (1) in-ground filter bed with 29.3 square metres of effective area.

Existing Class 4 Sewage Works (1,600 L/d) to service the ***existing three-bedroom dwelling*** , serving as the Director House, consisting of:

- One (1) two-compartment pre-cast concrete septic tank equipped with effluent filter having a total capacity of 5,500 litres; discharging by gravity to the septic bed described below.
- One (1) in-ground filter bed with 21.4 square metres of effective area.

Existing Class 2 Sewage Works (300 L/d) to service the ***proposed Recreation Centre (former Dining Hall)*** ,

consisting of:

- One (1) two-compartment pre-cast concrete septic tank equipped with effluent filter having a total capacity of 4,500 litres; discharging by gravity to the greywater pit described below.
- One (1) greywater pit with sidewall area of 13.4 square metres.

Existing Class 2 Sewage Works (4 x 300 L/d) to service the *existing Shower Buildings* , consisting of:

- Four (4) greywater pits, each having a sidewall area of 11.56 square metres.

Existing Class 1 Sewage Works to service *existing un-serviced sleeping cabins* , for campers and staff consisting of:

- Twenty two (22) earth pit privies.

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

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. "Commissioned" means the construction is complete and the system has been tested, inspected, and is ready for operation consistent with the design intent;
3. "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;
4. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
5. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19, as amended;
6. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
7. "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;
8. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;

9. "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;
10. "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;
11. "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;
12. "Owner" means Camp Can-Aqua Inc. and its successors and assignees;
13. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
14. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
15. "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. 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 Installer or 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 an imported soil that is required for construction of any subsurface disposal bed as per this Approval is tested and verified by the Licensed Engineering Practitioner or Licensed Installer for the percolation time (T) prior to delivering to the site location and the written records are kept at the site.
4. Within **six (6) months** of the Works being Commissioned, the Owner shall prepare a statement, certified by a Licensed Installer or 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.
5. 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. OPERATIONS, MAINTENANCE AND RECORDING

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 ensure that the septic tanks are pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filter is cleaned out at minimum once a year (or more often if required).
3. 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).
4. 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.
5. The Owner shall visually inspect the general area where Works are located for break-out once every month during the operating season.
6. 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.

7. The Owner shall maintain a logbook to record the results of operation and maintenance activities specified in the above sub-clauses, and shall keep the logbook at the site and make it available for inspection by the Ministry staff.
8. 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.
9. The Owner shall ensure that the flow of treated effluent discharged into the subsurface disposal bed servicing the:
 - a. *existing Medical Centre/Office* does not exceed 1,525 litres per day
 - b. *new Dining Hall* does not exceed 16,500 litres per day
 - c. *existing Central Washroom System* does not exceed 1,700 litres per day
 - d. *two existing one-bedroom cabins serving as the Assistant Directors House* does not exceed 1,500 litres per day
 - e. *existing three-bedroom dwelling serving as the Director House* does not exceed 1,600 litres per day.
10. 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. REPORTING

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

7. SPECIAL CONDITION

1. 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 Groundwater Monitoring Table included in

Schedule B.

2. Prior to the startup of the Proposed Works, the Owner shall install a shallow groundwater monitoring well or piezometer down-gradient of the proposed leaching bed servicing the New Dining Hall near the adjacent property boundary and background groundwater quality must be established by collecting groundwater samples and having them analyzed for the parameters listed in the Groundwater Monitoring Table included in **Schedule B**.

8. 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.

Schedule A

1. Environmental Compliance Approval Application for Private Sewage Works dated October 4, 2023 and signed by Andrew Martin, Camp Director, including final plans, specifications and report prepared by Stew Dolstra, B.Sc., and Jeremy Tracey P.Eng., of Cambium Inc.

Schedule B

Groundwater Monitoring Table

Sampling Location	at monitoring well (down-gradient of the proposed leaching bed servicing the New Dining Hall near the adjacent property boundary)
Frequency	Once during the operating season*
Sample Type	Grab
Parameters	Total Inorganic Nitrogen (TIN), Dissolved Phosphorus

Note: *Groundwater samples shall be collected once during the operating season for the first three (3) years. After three years of monitoring the frequency may be reduced, in writing by the District Manager, based on monitoring results.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
4. Condition 4 is included to ensure that the Works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.
5. Condition 5 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected.
6. Condition 6 is included to ensure the Ministry is given prior notice of the pending start up date of the Works and all reportable spills are properly dealt with, documented and reported.
7. Condition 7 is included to make the Owner aware that groundwater quality baseline shall be established and groundwater monitoring shall be conducted.
8. Condition 8 is included to ensure that any components of un-used Works are properly

decommissioned.

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

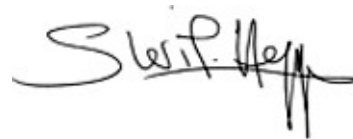
The Director appointed for the purposes of
Part II.1 of the *Environmental Protection Act*
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

* **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 6th day of November, 2024



Sherif Hegazy, P.Eng.

Director

appointed for the purposes of Part II.1 of the

YK/

c: District Manager, MECP Peterborough
Jeremy Tracey, Cambium Inc.