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:

modifications to existing sewage treatment and subsurface disposal Works for the collection, transmission, treatment and disposal of domestic sewage with a total daily design sanitary sewage flow of 28,450 litres per day from the owner's residence, two (2) rental cabins, and fifty-eight (58) trailer sites, located at the Joli Voyageur Resort and Campground, in the Municipality of West Nipissing, District of Nipissing, consisting of the following:

**Proposed Works**

modifications to an existing sewage system, having a total daily design sanitary sewage flow of approximately 3,800 litres per day, servicing the three-bedroom owner's residence and two (2) two-bedroom rental cabins, consisting of the following:

- one (1) existing pre-cast concrete septic tank, comprised of two compartments, having a minimum capacity of approximately 3,600 litres, provided with inlet, outlet risers and lids accessible at grade and equipped with an approved effluent filter at the outlet, receiving sewage from the owner's residence via gravity and discharging the effluent to the new pump chamber described below;

- one (1) new pre-cast concrete pump chamber, having a minimum capacity of approximately 900 litres, equipped with a submersible effluent pump, floats and an audible/visual high level alarm system, discharging effluent via a 50 millimetres diameter forcemain to the new balancing tank described below;

- one (1) new pre-cast concrete septic tank, comprised of two compartments, having a minimum capacity of approximately 4,500 litres, provided with inlet, outlet risers and lids accessible at grade and equipped with an approved effluent filter at the outlet, receiving sewage from the two (2) rental cabins via gravity and discharging the effluent to the new balancing tank described below;

- one (1) new pre-cast concrete balancing tank, having a minimum capacity of approximately 4,300 litres, equipped with a submersible effluent pump that utilizes timed dosing to pump effluent to the new dispersal bed described below, complete with floats and an audible/visual high level alarm system;
- two (2) new fibreglass open-bottom Ecoflo Biofilter treatment units (Model ST-650), installed directly on top of the new dispersal bed described below, with each unit having a minimum treatment capacity of approximately 2,015 litres per day and being equipped with distribution plates to uniformly distribute effluent on the surface of the peat filtration media;

- one (1) raised Type A dispersal bed, receiving effluent from the Ecoflo Biofilter treatment system installed directly on top of the bed, having a minimum surface area of approximately 79 square metres (5.1 metres by 15.5 metres), with a 200 millimetres deep stone layer covered with non-woven geotextile fabric, having a minimum separation distance of 900 millimetres between the bottom of the stone layer and the high groundwater table, rock or soil with a percolation rate greater than 50 minutes per centimetre, with the stone layer overlying a sand layer having a minimum depth of 600 millimetres and a percolation rate of 6 to 10 minutes per centimetre, complete with a minimum of 250 millimetres thick sand mantle with a percolation rate of 6 to 10 minutes per centimetre, extending a minimum of 15 metres downgradient beyond the outermost distribution pipes in any direction in which the effluent will move laterally;

**Previous Works**  (previously approved under Environmental Compliance Approval No. 11/MA/91, issued on October 17, 1991)

one existing sewage system, having a total daily design sanitary sewage flow of approximately 24,650 litres per day, servicing fifty-eight (58) trailer sites, consisting of the following:

- an existing sewage collection system comprised of sanitary sewage collection pipes, pumping stations and forcemains, discharging to the existing septic tank described below;

- one (1) existing pre-cast concrete septic tank, comprised of two compartments, having a minimum capacity of approximately 22,730 litres, provided with inlet, outlet risers and lids accessible at grade and equipped with an effluent filter at the outlet, receiving sewage from the trailer sites via the sewage collection system described above, and discharging to the existing lagoon described below;

- one (1) existing infiltration lagoon, having a surface area of approximately 11.2 square metres and a minimum retention capacity of approximately 1,246 cubic metres;

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

all in accordance with the supporting documents listed in Schedule 'A'.

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

"Approval" means this entire document and any schedules attached to it, and the application;

"CBOD 5 " means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

"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;

"District Manager" means the District Manager of the Sudbury District Office of the Ministry;

"EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
"Licensed Installer" means a person who holds a licence under Article 2.12.3.1 of the OBC;

"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;

"OBC" means the Ontario Building Code;

"Owner" means 2321427 Ontario Limited, and includes his successors and assignees;

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

"Previous Works" means those portions of the sewage works previously constructed and approved under an Approval;

"Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act;

"Proposed Works" means the sewage works described in the Owner's application, this Approval, to the extent approved by this Approval; and

"Works" means the sewage Works described in the Owner's application, and this Approval, and includes Proposed Works and Previous Works.

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

TEAMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The Owner shall ensure that any persons authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Approval.

(3) Where there is a conflict between a provision of any submitted document referred to in this Approval and the Conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the documents listed in the Schedule submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.
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.

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 Owner;

(b) change of address of the 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 to the District Manager; and

(d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

(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.

4. CONSTRUCTION

(1) The Owner shall ensure that the construction of the Proposed Works is supervised by a Licensed Installer or a Professional Engineer.

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

(3) Upon construction of the Proposed Works, the Owner shall prepare a statement, certified by a Licensed Installer or a Professional Engineer, that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff and staff of the local municipality.

(4) Upon construction of the Works, the Owner shall prepare a set of as-built drawings showing the works “as constructed”. "As-built" drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the site for the operational life of the Works.

(5) The Owner shall ensure that the Ecoflo Biofilter treatment system is installed in accordance with the Manufacturer's Installation Manual.

5. OPERATION AND MAINTENANCE

(1) The Owner shall ensure that at all times, the Works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained.

(2) The Owner shall 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.

(3) 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.

(4) The Owner shall ensure that the biofiltration units including the filter media are inspected at least annually by the authorized personnel (e.g. an authorized representative of the equipment manufacturer, a licensed operator) and maintained or replaced according to the manufacturer's recommendations.

(5) The Owner shall ensure that the septic tanks are pumped out every 3-5 years or when a tank is one third full of solids and the effluent filter is cleaned out at minimum once a year (or more often if required).

(6) The Owner shall ensure that the area of the underground works is protected from vehicle traffic and that grass-cutting is maintained regularly over the subsurface disposal bed, and the drainage operations in the bed is visually observed on a monthly (once every month) basis for any breakouts during the peak summer months of operation (May, June, July and August). In the event a breakout is observed from a subsurface disposal bed, the Owner shall ensure that the sewage discharge to the bed is discontinued and the incident immediately reported verbally to the District Manager, followed by a written report within one (1) week. The Owner shall ensure that during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to a surface water body or to the environment, and safely collected and disposed off through a licensed waste hauler to an approved waste disposal site.

(7) The Owner shall ensure that the Previous Works, particularly the existing infiltration lagoon, are inspected on an annual basis.

(8) The Owner shall prepare an operations manual within three (3) 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 the Works;

(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 all the Works; copies of maintenance contracts for any routine inspections & 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 District Manager; and

(f) procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

(9) The Owner shall maintain the operations manual current and retain a copy at the location of the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
(10) The Owner shall maintain a logbook to record the results of Operation and Maintenance activities specified in the above subclauses, and shall keep the logbook at the site and make it available for inspection by the Ministry staff.

6. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Proposed Works, carry out the following monitoring program:

(1) All samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.

(2) Samples shall be collected of the effluent being discharged to the subsurface disposal bed at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

| Table 1 - Effluent Monitoring - (Effluent discharged to the subsurface disposal bed) |
|---------------------------------|----------------------------------|
| Frequency | Bi-annual (two times per calendar year) |
| Sample Type | Grab |
| Parameters | CBOD5 and Total Suspended Solids |

(3) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

   (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" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; 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.

(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 Operation, Maintenance and Monitoring activities required by this Approval.

7. EFFLUENT OBJECTIVES

The Owner shall use best efforts to design, construct, operate and maintain the Proposed Works with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent being discharged to the subsurface disposal system.

| Table 2 - Effluent Objectives (effluent discharged to the subsurface disposal system) |
|---------------------------------|---------------------------------|
| Effluent Parameter | Concentration Objective (milligrams per litre unless otherwise indicated) |
| CBOD5 | 10.0 |
| Total Suspended Solids | 10.0 |
8. REPORTING

(1) In addition to the obligations under Part X of the Environmental Protection Act, the Owner shall, within 10 working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

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

(3) In the event that any signs of failure are observed or identified in the existing infiltration lagoon, the Owner shall report this verbally to the District Manager, followed by a written report within one (1) week.

(4) The Owner shall prepare and submit a performance report, on an annual basis, within ninety (90) days following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

(a) a summary and interpretation of all monitoring data and a comparison to the effluent objectives outlined in Condition 7, including an overview of the success and adequacy of the Works and a summary and description of efforts made and results achieved in meeting these effluent objectives;

(b) a review and assessment of performance of sewage works, including treatment units and disposal beds;

(c) a summary of any effluent quality assurance or control measures undertaken in the reporting period;

(d) a tabulation of the measured or estimated daily quantities of effluent disposed of through the subsurface disposal system during the reporting period;

(e) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;

(f) a description of any operating problems encountered and corrective actions taken;

(g) a summary of any complaints received during the reporting period and any steps taken to address the complaints;

(h) a summary of all spills or abnormal discharge events; and

(i) any additional information requested by the District Manager from time to time.

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 enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Approval and that the Works does not cause any impairment to the environment.

7. Condition 7 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.

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.

Schedule 'A' forms part of this Approval and contains a list of supporting documentation / information received, reviewed and relied upon in the issuance of this Approval.

**SCHEDULE 'A'**

1. Environmental Compliance Approval Application submitted by 2321427 Ontario Limited, dated January 19, 2016 and received on January 22, 2016; and all supporting documentation and information.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, S.O. 1993, c. 28 (Environmental Bill of Rights), the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. 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;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

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

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

This Notice must be served upon:

The Secretary*
Environmental Review
Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Environmental Commissioner
1075 Bay Street, Suite 605
Toronto, Ontario
M5S 2B1

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

* Further information on the Environmental Review Tribunal’s requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at www.ebr.gov.on.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 21st day of November, 2016
Fariha Pannu, P.Eng.  
Director  
appointed for the purposes of Part II.1 of the *Environmental Protection Act*  

JO/  
c: Area Manager, MOECC North Bay Area Office.  
c: District Manager, MOECC Sudbury District Office.  
Pat Whissell, Canadian Shield Consultants Agency Inc.  
Andrew Hellebust, P.Eng., Canadian Shield Consultants Agency Inc.