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:

Upgrades to the existing subsurface disposal works for the collection, transmission, treatment and disposal of sewage serving the existing Honey Harbour Boat Club which includes the main facility/marina and two private residences: Lily Pond House and Bayview House, designed for a maximum daily flow of approximately 11,000 litres per day, consisting of the following:

**Proposed Works**

**System #1: Main Facility and Marina serving Harbour Boat Club**

The proposed works includes a new balancing tank, a new septic tank, and a Waterloo Biofilter treatment unit. Treated effluent will be discharged via a new raised Type A Dispersal leaching bed.

The proposed sewage works rated for 8,265 L/day serving the Honey Harbour Boat Club, consists of the following:

One (1) 9,000 L existing one compartment holding tank to be retrofitted as one (1) 9,000 L one compartment pre-cast concrete balancing tank complete with alternating duplex raw sewage pumps Little Giant WS52M, 0.5HP or approved equivalent, rated for 4.4 L/s at 4.1 m TDH with high/level audible visual alarm, utilizing timer controls to limit the sewage flow to the treatment system to a maximum of 2,400 L/day, and associated piping valves, equipment and appurtenances, discharging to a septic tank as described below;

One (1) proposed two-compartment pre-cast concrete septic tank, having a working capacity of 9,000 L, equipped with an effluent filter rated for 2,400 L, discharging effluent by gravity to the pump chamber as described below;

One (1) proposed 2,025 L pump chamber, Roth RMT-500 model or approved equivalent, equipped with duplex effluent pumps Little Giant WS100H 1HP or approved equivalent, rated for 3.1 L/s at a TDH of 22.4 m with demand controlled floats, discharging effluent to the Waterloo Biofilter Flat Bed treatment system;

One (1) proposed Waterloo Biofilter Model 25Flat Bed, rated for a total flow of 2,505 L/day, located on top of the stone layer of the proposed leaching bed on the south side of the property as described.
One (1) proposed raised Type A Dispersal Bed rated for a daily sewage flow of 2,400 L/day, receiving effluent from the Waterloo Biofilter Treatment unit, consisting of a stone layer having a 200 millimetres thickness and an area of 36 square metres protected with a layer of permeable Geotextile fabric cover, overlaying a 600 millimetres imported sand layer which includes a 300 millimetres imported iron-rich sand underlay layer providing phosphorous attenuation to the soil, with the imported sand layer having a minimum thickness of at least 300 millimetres with a percolation time (T) of 6 to 10 minutes per centimetre, having a sand area of 345 square metres including a 15 metres sand mantle overlaying a 100 millimetre clay layer, with sand layer extending a minimum of 15 m beyond the outermost distribution pipe in any direction which effluent will move laterally in the soil away from the bed. The bottom of the stone layer shall be at least 600 millimetres above high ground water table, rock or soil with a percolation time greater than 50 minutes.

Existing Works

System # 2: Private Residence: Lily Pond House

This private residence is an existing three (3) bedroom dwelling located on the South end of Honey Harbour Club property with a daily design sewage flow of 1,600 litres per day and consisting of:

One (1) 3,600 litre plastic Septic tank (located on the east side of the residence) discharging flow by gravity to a leaching bed as described below;

One (1) Leaching bed consisting of 4 runs by 75 millimetres diameter distribution pipe over a 22 square metres area.

System # 3: Private Residence: Bayview House

This private residence is an existing two (2) bedroom dwelling located on the east side of Honey Harbour property with a daily design sewage flow of 1,100 litres per day and consisting of:

One (1) 3,600 litre plastic Septic tank discharging effluent by pump to an existing leaching bed as described below;

One (1) Leaching Bed consisting of 4 runs of 75 millimetre diameter PVC distribution pipe for a total length of approximately 48 metres.

All in accordance with supporting documentation listed in Schedule 'A'.

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

1. "Approval" means this entire Approval document and any Schedules to it, including the application and Supporting Documentation;
2. "BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;
3. "CBOD5" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;
4. "Director" means a person appointed by the Minister pursuant to Section 5 of the EPA for the purposes of Part II.I of the EPA;
5. "District Manager" means the District Manager of the Barrie District Office;
7. "Existing Works" means those portions of the sewage works previously constructed but not approved under an Approval: (approved by health unit or no original approvals found);
8. "Licensed Installer" means a person who holds a licence under Article 2.12.3.1 of the Ontario Building Code.
9. "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;
10. "OBC" means the Ontario Building Code;
11. "Owner" means Honey Harbour Boat Club and its successors and assignees;
12. "OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended;
13. "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;
14. "Proposed Works" means the sewage works described in the Owner’s application, this Approval, to the extent approved by this Approval;
15. "Substantial Completion" has the same meaning as “substantial performance” in the Construction Lien Act;
16. "Supporting Documentation" means the documents listed in Schedule A of this Approval;
17. "Works" means the sewage works described in the Owner’s application and this Approval, and it includes both proposed 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 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, and the application for approval of the Works.
   3. Where there is a conflict between a provision of any document in the schedule 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 documents in the schedule, 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;
      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 Works is supervised by a licensed installer or a Professional Engineer, as defined in the Professional Engineers Act.
   2. The Owner shall ensure that the Waterloo Biofilter Treatment system is installed in accordance with the Manufacturer's Installation Manual.
   3. Upon construction of the 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.
   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. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:
   1. All samples and measurements taken for the 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 at the sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the Influent Monitoring Table included in Schedule B.
   3. Samples shall be collected at the sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the Effluent Monitoring Table included in Schedule B.
   4. The monitoring outlined pursuant to subsection (2) and subsection (3) shall be undertaken for a period of at least three (3) years following the start up of the Works. After the three years, the
Owner may request that the monitoring be discontinued or the frequency be reduced.

5. The Owner shall employ any measurement devices to accurately measure quantity of effluent being discharged to each individual subsurface disposal system, 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 system.

6. 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.

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

6. EFFLUENT OBJECTIVES

1. The Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials named as effluent parameters in the Effluent Objectives Table listed in Schedule B are not exceeded in the effluent being discharged to the subsurface disposal system.

7. EFFLUENT LIMITS

1. The Owner shall design, construct, operate and maintain the Works such that the concentrations of the materials named as effluent parameters in the Effluent Limits Table in Schedule B are not exceeded in the effluent being discharged to the subsurface disposal system.

2. For the purposes of determining compliance with and enforcing subsection (1):
   a. The monthly average concentration of CBOD5 & TSS named in Column 1 of Effluent Limits Table listed in Schedule B shall not exceed the corresponding maximum concentration set out in Column 2 of Effluent Limits Table listed in Schedule B.

8. OPERATIONS AND MAINTENANCE

1. The Owner shall prepare an operations manual within six (6) months of the introduction of sewage to the Works, that includes, but not necessarily limited to, the following information:
   a. operating procedures for routine operation of all the Works;
   b. inspection programs, including frequency of inspection, for all the Works and the methods or tests employed to detect when maintenance is necessary;
   c. repair and maintenance programs, including the frequency of repair and maintenance for all the Works; copies of maintenance contracts for any routine inspections & 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.

2. 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.

3. The Owner shall prepare and make available for inspection by Ministry staff, a maintenance agreement with the manufacturer for the treatment process/technology and a complete set of "as constructed" drawings within one (1) year of Substantial Completion of the Works. The maintenance agreement and drawings must be retained at the site and kept current.

4. The Owner shall ensure that all septic tanks are pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filters are cleaned out at minimum once a year or more often if required.

5. The Owner shall ensure that grass-cutting is maintained regularly over all the subsurface disposal beds, and the drainage operations in all beds are visually observed on a monthly basis. In the event a break-out 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.

6. The Owner shall ensure that adequate steps are taken to ensure that the area of the Works are protected from all forms of vehicle traffic.

7. 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.

9. REPORTING

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

2. In addition to the obligations under Part X of the 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.

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

4. The Owner shall prepare and submit a performance report, on an annual basis, within ninety (90) days following the end of each operational season to the District Manager. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall 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 Limits (Condition 7) including an overview of the success and adequacy of the Works;
   b. a review and assessment of performance of sewage works, including treatment units and disposal beds;
   c. a description of any operating problems encountered and corrective actions taken at all sewage Works located at the property;
   d. a summary of all maintenance carried out on any major structure, equipment, apparatus,
mechanism or thing forming part of all Works located at the property;
e. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
f. a summary and description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6;
g. a summary and interpretation of all flow data and results achieved in not exceeding the maximum daily flow discharged into the subsurface disposal system;
h. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
i. a summary of all spill or abnormal discharge events;
j. any other information the District Manager requires from time to time;

10. SPECIAL CONDITION

1. Prior to the operation of the Works, the Owner shall decommission the well located north of the leaching bed in accordance with O.Reg 903, Wells.

Schedule A

1. Application for Approval of Municipal and Private Sewage Works submitted by Curtis Sallows, General Manager of Honey Harbour Boat Club, dated December 6, 2016 and received on January 16, 2017 and all supporting documentation;
2. Application for Approval of Municipal and Private Sewage Works submitted by Curtis Sallows, General Manager of Honey Harbour Boat Club, dated August 6, 2009 and;
3. A design brief dated January 29, 2010 and enclosed engineering drawing, and all other supporting information and documentation provided by H. H. Angus and Associates Ltd.

Schedule B

Influent Monitoring Table

<table>
<thead>
<tr>
<th>Sampling Location</th>
<th>Upstream of the Waterloo Biofilter Treatment System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>Once a year (during the operating season)</td>
</tr>
<tr>
<td>Sample Type</td>
<td>Grab</td>
</tr>
<tr>
<td>Parameters</td>
<td>BOD$_5$, Total Suspended Solids</td>
</tr>
</tbody>
</table>

Effluent Monitoring Table

<table>
<thead>
<tr>
<th>Sampling Location</th>
<th>The base of the Waterloo Biofilter Treatment System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>Once a month (during the operating season)</td>
</tr>
<tr>
<td>Sample Type</td>
<td>Grab</td>
</tr>
<tr>
<td>Parameters</td>
<td>CBOD$_5$, Total Suspended Solids</td>
</tr>
</tbody>
</table>

Effluent Objectives Table

<table>
<thead>
<tr>
<th>Effluent Parameter</th>
<th>Concentration Objective (milligrams per litre unless otherwise indicated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBOD$_5$</td>
<td>10</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>10</td>
</tr>
</tbody>
</table>

Effluent Limits Table

<table>
<thead>
<tr>
<th>Effluent Parameter</th>
<th>Concentration Limit (milligrams per litre unless otherwise indicated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBOD$_5$</td>
<td>20</td>
</tr>
<tr>
<td>Total Suspended Solids (TSS)</td>
<td>20</td>
</tr>
</tbody>
</table>

The reasons for the imposition of these terms and conditions are as follows:
1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.

2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included to ensure that the works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.

5. Condition 5 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.

6. Condition 6 is imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.

7. Condition 7 is imposed to ensure that the effluent discharged from the Works to the subsurface meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver.

8. Condition 8 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected. As well, the inclusion of an operations manual, maintenance agreement with the manufacturer for the treatment process/technology and a complete set of "as constructed" drawings governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the Ministry. Such information is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the work.

9. Condition 9 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.

10. Condition 10 is included to inform the Owner that the well located north of the leaching bed shall be decommissioned prior to the operation of the Works.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 1486-82RLWG issued on March 9, 2010.

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:

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

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

The Notice should also include:

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

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

This Notice must be served upon:

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

AND

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 3rd day of October, 2017

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

KR/
c: District Manager, MOECC Barrie District Office
Katherine Rentsch, RJ Burnside and Associates, Honey Harbour Boat Club