

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 3421-C7WPBN  
Issue Date: November 23, 2021

Osprey Valley Resorts Inc.  
18821 Main St  
Alton, Ontario  
L0N 1A0

Site Location: Osprey Valley Golf Course  
18821 Main St  
Caledon Town, Regional Municipality of Peel

*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:*

the expansion/upgrade of sewage works for the collection, transmission, treatment and disposal of domestic sewage from the proposed redevelopment of the property includes two new clubhouses, a banquet facility, a golf academy/training centre, overnight/hotel accommodations, headquarter buildings for Golf Canada, and improvements of the existing maintenance buildings at the Osprey Valley Golf Course, consisting of the following:

**Proposed Works**

Centralized On-site Sewage Treatment System

An on-site sewage treatment plant using a new Modified Sequencing Batch Reactor System (ASL-MSBR) with a rated capacity of 165,000 L/day to treat sewage flows from the Main Clubhouse, Golf Academy, Halfway House, Heathlands Clubhouse, Event Barn, Accommodations North and Accommodations South, comprising of the following:

Equalization Tank

one (1) 50,000 L pre-cast concrete Equalization (EQ) Tank equipped with four (4) submersible pumps rated for 100 GPM at 25 ft of Total Dynamic Head, designed to buffer incoming effluent flows to the ASL-MSBR reactor at the lowest possible flowrate to optimize treatment efficiency performance,

discharging (by pumping) to the sequencing batch reactor (SBR) tank as described below;

#### Sequencing Batch Reactor Tanks

two (2) pre-cast concrete SBR reactors in parallel , each with a volume capacity of 114,100 L, each including one pre-react chamber and the main chamber and equipped with fine bubble diffusers, a Roots Universal RAI Blower, one (1) waste sludge pumps, and one (1) decanters with automatic control, with controlled aerobic and anaerobic cycles occur to encourage treatment and digestion, discharging effluent to the post-equalization tank and activated sludge waste to the sludge holding tanks;

#### Post-Equalization Tank

one (1) 40,000 L post-equalization (post EQ) tank equipped with two (2) sewage pumps rated for 50 GPM at 30 psi of Total Dynamic Head, providing flow balancing and buffering storage that is dosed to the tertiary filtration system at a uniform rate;

#### Tertiary Filtration

three (3) tertiary NextSand pressure filters in parallel, to promote the removal of TSS and phosphorous prior to the ultrafiltration (UF) system;

ultrafiltration (UF) system, consisting of four (4) UF membranes, one (1) chlorine injection pump, one (1) citric acid injection pump, one (1) caustic injection pump as well as miscellaneous chemical holding tanks as required and a backwash tank, arranged in a series of sequential trains of UF modules capable of producing treated water on a continual basis;

#### UV Disinfection

a parallel configuration of Hallett Ultraviolet (UV) disinfection units, consisting of 3 reactors capable of disinfecting to less than 10 CFU/100 mL, equipped with an IFM magnetic flow meter to record the daily discharge volume of treated water, discharging through a flow meter to the effluent pump station for final disposal;

#### Sludge Holding Tank

one (1) sludge holding tank, receiving activated waste sludge from both ASL-MSBR tanks via pumping at timed intervals, equipped a coarse bubble aeration system for odour control, with additional effluent fluid drains by gravity to the raw EQ tank;

#### Effluent Pump Station (SPS3)

treated effluent from the tertiary filters and UV system to SPS3, consisting of a 2.4 m diameter pump chamber equipped with duplex alternating 1.5 HP pumps rated for 8.3 L/min and a TDH of 11 m and equipped with run time meters, with a 75 mm force main directing treated effluent to Pond 4 on an on demand basis, and a gravity overflow discharge pipe which directs treated effluent to the Credit River via a

gravity sewer and effluent outfall when the pumps to Pond 4 are not operational;

#### Effluent Outfalls

a 150 mm gravity sewer, a concrete headwall in accordance with OPSD 804.030 and rip rap outfall (OPSD 810.010) for Credit River;

#### South Maintenance Building Sewage System

A sewage treatment facility serving the South Maintenance Building, having a rated capacity of 3,000 litres per day consisting of:

##### Sewage Pump Station

one (1) 4,500 litre concrete tank, complete with a duplex pump system, each pump rated at 91.7 litres per minute and TDH of 1.5 metres, two (2) 600 millimetre diameter access risers, discharging sewage on a demand dose basis (250 litres) to a septic tank as described below.

##### Septic Tank

one (1) 13,650 litre two-compartment concrete septic tank, complete with two (2) 600 millimetre diameter access risers, and one (1) effluent filter, discharging to an effluent pump station as described below.

##### Effluent Pump Station

one (1) 6,800 litre single compartment pump tank, complete with two (2) 610 millimetre diameter access risers, a duplex effluent pump system, each pump rated at 68.8 litres per minute and TDH of 4.7 metres, timed dosing of 1,000 litres, operating on an alternating basis discharging to a distribution box and a subsurface disposal system as described below.

##### Subsurface Disposal System

one (1) in-ground absorption trench field consisting of two (2) cells (cell 'A' and cell 'B '), each cell consisting of five (5) runs of 75 millimetres perforated distribution piping, each run 25 metre long, installed at 1.6 metres c/c (total 250 metres).

A greywater pit sewage system with a rated capacity of 1,000 litres per day consisting of:

##### Holding Tank

one (1) 3,600 litre holding tank, complete with one (1) filter and two (2) 600 millimetre diameter access risers, discharging by gravity, via a 100 millimetre diameter PVC pipe to two (2) greywater pits as described below.

## Greywater Pit

two (2) greywater pits, designed to accept 500 litres per day each (total 1,000 litres per day), each pit 13 metre long by 2 metre wide by 1 metre deep with a total sidewall area of 60 square metres in a native soil, complete with one (1) 100 millimetre perforated PVC pipe located within greywater pit.

## North Maintenance Building Sewage System

A sewage treatment facility serving the North Maintenance Building, having a rated capacity of 3,000 litres per day consisting of:

### Aerobic Digester Tank

one (1) 9,000 L anaerobic digester tank, equipped with an inert tube at the inlet and an internal pump chamber at the outlet, with an internal pump chamber housing a submersible effluent pump operating on a timer system, discharging to the basket tank of the biofilter system;

### Basket Biofilter Tank

one (1) 9,000 L basket biofilter tank, equipped with two (2) baskets filled with biofilter medium, a small, low voltage, air fan to promote aerobic conditions, and two (2) submersible effluent pumps operating on separate timers, with one pump recirculating a portion of the treated effluent to the inlet of the anaerobic digester and the second pump pumping the treated effluent to the first compartment of the WaterNox-LS and Disposal Tank;

### WaterNox-LS and Disposal Tank

one (1) two-compartment 5,900 L WaterNox-LS tank filled with denitrifying medium using autotrophic bacteria to complete denitrification, with the second compartment equipped with two (2) gravity-fed polishing baskets filled with Biofilter medium and a submersible effluent pump (Little Giant WS50M-12-20 or approved equal) rated 2.4 L/s at a TDH of 9.0 m, discharging to the proposed leaching bed;

### Leaching bed - Type A Dispersal Bed

one (1) new Type A Dispersal Bed designed for the disposal of treated effluent from the Waterloo Biofilter treatment system, for a maximum daily flow of 3,000 L/day and having a sand area of 264 m<sup>2</sup> (with minimum 300 mm thick imported fine sand fill with a percolation time in the range of 6 to 10 min/cm and meeting OBC specifications), a top stone area of 48 m<sup>2</sup> equipped with six (6) runs of 7.0 m long 75 mm diameter perforated distribution pipe spaced at 1.0 m centre to centre and installed in the stone layer covered with a geotextile filter fabric, having a minimum separation distance of 600 mm between the bottom of the stone layer and the high groundwater table or rock, with the dispersal bed having a minimum of 300 mm thick sand mantle extending a minimum of 15 metres down-gradient beyond the outermost distribution pipes in any direction in which the effluent will move laterally;

## Golf Canada Offices Sewage System

A sewage treatment facility serving the Golf Canada Offices, having a rated capacity of 9,850 litres per day consisting of:

### Aerobic Digester Tank

one (1) 27,500 L anaerobic digester tank, equipped with an innertube at the inlet and an effluent filter at the outlet, and a liquid alkalinity chemical dosed into the inlet of the anaerobic digester in order to ensure sufficient alkalinity to promote effective nitrification. discharging effluent by gravity to a pump tank;

### Pump Tank

one (1) 9,000 L pump tank, equipped with two (2) submersible effluent pumps operating on an alternating timer, and a liquid bacterial additive dosed as required into the pump tank to ensure sufficient bacterial action is present for the biological processes required for treatment of effluent in downstream components, discharging effluent to a basket biofilter tank;

### Basket Biofilter Tank

one (1) 36,000 L basket biofilter tank, equipped with three (3) baskets filled with biofilter medium, a small, low voltage, air fan to promote aerobic conditions, and two (2) submersible effluent pumps operating on separate timers, two (2) submersible effluent pumps operating on an alternating timer; with the first simplex pump pumping a maximum of 6,500 L/day of effluent to the third basket in the basket Biofilter tank, second simplex pump recirculating a portion of treated effluent to the inlet of the anaerobic digester tank, and the duplex pumps directing effluent to the WaterNOx-LS tank;

### WaterNox-LS Tank

one (1) one-compartment 11,250 L WaterNox-LS Tank filled with denitrifying medium using autotrophic bacteria to complete denitrification, discharging effluent by gravity to the polishing basket biofilter tank;

### Polishing Basket Biofilter Tank

one (1) 13,500 L Polishing Basket Biofilter Tank equipped with two (2) baskets filled with biofilter medium, two (2) submersible effluent pumps operating on separate timers, two (2) submersible effluent pumps operating on alternating timers, and a small, low voltage air fan to promote aerobic conditions, with the first simplex pump pumping a maximum of 6,500 L to two (2) baskets with biofilter medium and the second simplex pump pumping a maximum of 5,900 L/day to a 5,900 L Closed Loop WaterNox-LS Tank, and the duplex pumps (rated for 2.7 L/s and a TDH of 13.8 m) pumping the final effluent to the Type A dispersal bed;

### Closed Loop WaterNox-LS Tank

one (1) closed loop WaterNox-LS tank receiving a maximum of 5,900 L/day from the polishing basket

biofilter tank, with the tank filled with denitrifying medium, discharging effluent by gravity back to the polishing basket biofilter tank;

#### Leaching bed - Type A Dispersal Bed

one (1) new Type A Dispersal Bed designed for the disposal of treated effluent from the Waterloo Biofilter treatment system, for a maximum daily flow of 9,850 L/day and having a sand area of 720 m<sup>2</sup> (with minimum 300 mm thick imported fine sand fill with a percolation time in the range of 6 to 10 min/cm and meeting OBC specifications), a top stone area of 200 m<sup>2</sup> equipped with eight (8) runs of 24.0 m long 75 mm diameter perforated distribution pipe spaced at 1.0 m centre to centre and installed in the stone layer covered with a geotextile filter fabric, having a minimum separation distance of 600 mm between the bottom of the stone layer and the high groundwater table or rock, with the dispersal bed having a minimum of 300 mm thick sand mantle extending a minimum of 15 metres down-gradient beyond the outermost distribution pipes in any direction in which the effluent will move laterally;

### **Existing Works**

#### Sewage Works located at Clubhouse No. 1 **(to be decommissioned and removed)**

One(1) holding tank with the capacity of 22,000 litres.

#### Sewage Works located at Clubhouse No. 2 **(to be decommissioned and removed)**

One(1) holding tank with the capacity of 4,500 litres.

#### Turf Maintenance Building Sewage System **(to be decommissioned and removed)**

Sewage system consisting of one (1) septic tank with the capacity of 4,500 litres and a septic field.

#### North Shop Building Sewage System **(to be decommissioned and removed)**

Sewage system consisting of one (1) septic tank with the capacity of 3,600 litres and a 33 metre long distribution pipe.

#### Pump House

One (1) holding tank with the capacity of 5,400 litres located at Pump House.

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 submitted supporting documents listed in **Schedule "A"**.

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

"Act" means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;

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

"BOD5" (also known as TBOD<sub>5</sub>) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;

"CBOD5" 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 Halton-Peel District Office;

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

"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;

"Monthly Average Concentration" means the arithmetic mean of all Daily Concentrations of a contaminant in the effluent sampled or measured, or both, during a calendar month;

"Owner" means Osprey Valley Resorts Inc. and its successors and assignees;

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

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

"Substantial Completion" has the same meaning as "substantial performance" in the Construction Lien Act ;

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

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

## **TERMS AND CONDITIONS**

### **1. GENERAL PROVISIONS**

(1) The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the 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) The approval issued by 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 as defined in the Ontario Building Code or a Professional Engineer, as defined in the Professional Engineers Act.

(2) 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 and staff of the local municipality.

**5. EFFLUENT OBJECTIVES**

(1) The Owner shall design and undertake everything practicable to operate 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 from the treatment systems.

<b>Table 1 - Effluent Objectives for the Centralized Sewage Treatment System</b> (for samples collected from Effluent Pumping Station)	
<b>Effluent Parameter</b>	<b>Monthly Average Concentration Objective</b> (milligrams per litre unless otherwise indicated)
CBOD <sub>5</sub>	<5.0
Total Suspended Solids	<5.0
Total Phosphorus	0.1
Total Ammonia Nitrogen	1.5
<i>E. Coli</i>	100
Nitrate	10

<b>Table 2 - Effluent Objectives for North Maintenance Building Sewage System</b> (for samples collected from the outlet of the WaterNox-LS & Disposal Tank upstream of Leaching Bed)	
<b>Effluent Parameter</b>	<b>Monthly Average Concentration Objective</b> (milligrams per litre unless otherwise indicated)
CBOD <sub>5</sub>	10.0
Total Suspended Solids	10.0
Total Nitrogen	20.0

<b>Table 3 - Effluent Objectives for Golf Canada Offices Sewage System</b> (for samples collected from the outlet of the Polishing Basket Biofilter Tank upstream of Leaching Bed)	
<b>Effluent Parameter</b>	<b>Monthly Average Concentration Objective</b> (milligrams per litre unless otherwise indicated)
CBOD <sub>5</sub>	10.0
Total Suspended Solids	10.0
Total Nitrogen	10.0

(2) The Owner shall use best efforts to:

(a) maintain the pH of the effluent from the Works within the range of 6.5 to 8.5 inclusive, at all times;

(b) operate the Works below the maximum daily flow approved for the Works.

(3) The Owner shall include in all reports submitted in accordance with Condition 9, a summary of the efforts made and results achieved under this Condition.

## **6. EFFLUENT LIMITS**

(1) The Owner shall operate and maintain the Works such that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent being discharged from the treatment systems.

<b>Table 4 - Effluent Limits for the Centralized Sewage Treatment System</b> (for samples collected from Effluent Pumping Station)	
<b>Effluent Parameter</b>	<b>Monthly Average Concentration Limit</b> (milligrams per litre unless otherwise indicated)
Column 1	Column 2
CBOD <sub>5</sub>	10.0
Total Suspended Solids	10.0
Total Phosphorus	0.3
Total Ammonia Nitrogen	2.5
<i>E. Coli</i>	200

<b>Table 5 - Effluent Limits for North Maintenance Building Sewage System</b> (for samples collected from the outlet of the waterloo treatment system upstream of Leaching Bed)	
<b>Effluent Parameter</b>	<b>Monthly Average Concentration Limit</b> (milligrams per litre unless otherwise indicated)
CBOD <sub>5</sub>	20.0
Total Suspended Solids	20.0

<b>Table 6 - Effluent Limits for Golf Canada Offices Sewage System</b> (for samples collected from the outlet of the waterloo treatment system upstream of Leaching Bed)	
<b>Effluent Parameter</b>	<b>Monthly Average Concentration Limit</b> (milligrams per litre unless otherwise indicated)
CBOD <sub>5</sub>	20.0
Total Suspended Solids	20.0

(2) For the purposes of determining compliance with and enforcing subsection (1):

(a) The Monthly Average Concentration of a parameter named in Column 1 of the tables in subsection (1) shall not exceed the corresponding maximum concentration set out in Column 2 of the tables in subsection (1).

(b) The pH of the effluent shall be maintained between 6.0 to 9.0, at all times.

(3) Paragraphs (a) to (b) of subsection (2) shall apply upon the Substantial Completion of the Works.

## **7. OPERATIONS AND MAINTENANCE**

(1) The Owner shall prepare an Operations Manual within six (6) months of the start up of the Works, that includes, but is not necessarily limited to, the following information:

(a) operating procedures for routine operation of the Works;

(b) procedures for the inspection and calibration of monitoring equipment;

(c) inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary.

(d) repair and maintenance programs, including the frequency of repair and maintenance for the sewage Works;

(e) contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the District Manager; and

(f) complaint procedures for receiving and responding to public complaints.

(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 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.

- (4) The Owner shall sign a Service and Maintenance Agreement with the manufacturer or approved agent of the ASL-MSBR treatment system as well as the Waterloo Biofilter treatment systems. The maintenance agreement must be retained at the site for as long as the Works are in operation, kept current and made available for inspection by the Ministry staff.
- (5) The Owner shall receive from the manufacturers or distributors of Aslan Technologies Inc. and Waterloo Biofilter printed literatures that describe the units in detail and provide complete instructions regarding the operation, servicing, and maintenance requirements of the units and its related components necessary to ensure the continued proper operation in accordance with the original design and specifications.
- (6) The Owner shall ensure that the treatment systems are at minimum inspected annually by the vendors' authorized personnel, and maintained according to the manufacturers' recommendations;
- (7) The Owner shall ensure that the septic tank(s) is pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filter(s) is cleaned out at minimum once a year (or more often if required).
- (8) 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.
- (9) The Owner shall ensure that the drainage operations in the subsurface disposal bed on the property are observed on a monthly basis for breakouts and results recorded in a log book.
- (10) The Owner shall ensure that in the event a breakout is observed from the subsurface disposal bed, the discharge to the bed is immediately discontinued and the incident immediately reported verbally to the District Manager, followed by a written report within one (1) week. The Owner shall also ensure that during the time remedial actions are taking place the discharge from the Works is collected and disposed off-site through a licensed waste hauler to an approved waste disposal site.
- (11) The Owner, prior to the start-up of the Works, shall test the proposed effluent dosing pumps installed upstream of leaching beds to verify capacity and pump(s) running time as per this Approval, so the Works will operate within the approved capacity by this Approval.
- (12) 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.
- (13) The Owner shall maintain a physical or digital logbook to record the results of Operation and Maintenance activities specified in the above subclauses, and shall make the logbook available for inspection by the Ministry staff.
- (14) 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.

**8. 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) For the purposes of this condition, the following definitions apply:

(a) Weekly means once every week;

(b) Biweekly means once every two weeks;

(3) Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

<b>Table 7 - Raw Sewage Monitoring for All Sewage Systems</b>		
Samples to be collected at:		
1) EQ tank of the Centralized Sewage Treatment System 2) Digester tank of the North Maintenance Building Sewage System 3) Digester tank of the Golf Canada Offices Sewage System		
Parameters	Sample Type	Frequency
BOD <sub>5</sub>	Grab	Three times during operating season
Total Suspended Solids	Grab	Three times during operating season
Total Phosphorus	Grab	Three times during operating season
Total Kjeldahl Nitrogen	Grab	Three times during operating season
Alkalinity	Grab	Three times during operating season
pH	Grab	Three times during operating season

<b>Table 8 - Effluent Monitoring for the Centralized Sewage System</b>		
Samples to be collected at:		
1) The Effluent Pump Station (SPS3)		
2) Pond 4* (a well mixed location inside the pond)		
<b>Parameters</b>	<b>Sample Type</b>	<b>Frequency*</b>
CBOD <sub>5</sub>	Grab	Weekly during operating season
Total Suspended Solids	Grab	Weekly during operating season
Total Phosphorus	Grab	Weekly during operating season
Total Ammonia Nitrogen	Grab	Weekly during operating season
Nitrate	Grab	Weekly during operating season
<i>E. Coli</i>	Grab	Weekly during operating season
Temperature	Grab	Weekly during operating season
pH	Grab	Weekly during operating season

\*note: This location to be sampled weekly when there is effluent discharge.

<b>Table 9 - Effluent Monitoring for North Maintenance Building Sewage System and Golf Canada Offices Sewage System</b>		
(Samples to be collected at the outlet of each treatment system upstream of leaching bed)		
<b>Parameters</b>	<b>Sample Type</b>	<b>Frequency*</b>
CBOD <sub>5</sub>	Grab	Biweekly during operating season
Total Suspended Solids	Grab	Biweekly during operating season
Nitrite Nitrogen	Grab	Biweekly during operating season
Nitrate Nitrogen	Grab	Biweekly during operating season
pH	Grab	Biweekly during operating season

(4) 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;

(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.

(d) for any parameters not mentioned in the documents referenced in (a), (b) and (c), the written approval of the District Manager shall be obtained prior to sampling.

(5) Effluent sampling and monitoring of the sewage systems can be reduced two (2) years after the installation/operation of the last installed sewage system. The Owner shall apply approval amendment to the Director for this monitoring frequency reduction.

(6) The Owner shall measure/estimate and record the daily volume of effluent being discharged to each sewage treatment system.

(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.

## **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) The Owner shall report to the District Manager or designate, any exceedance of any parameter specified in Condition 6 orally, as soon as reasonably possible, and in writing within seven (7) days after receiving analytic results of the exceedance.

(3) 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.

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

(5) The Owner shall prepare, and submit to the District manager, 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 limits outlined in Condition 6, including an overview of the success and adequacy of the Works;
- (b) a tabulation of the daily volumes of effluent disposed through the sewage treatment systems during the reporting period;
- (c) a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 5;
- (d) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works; and
- (e) a description of any operating problems encountered and corrective actions taken.
- (f) a summary and interpretation of all flow data and results achieved in meeting the maximum daily flows for each sewage Works as approved under this Approval.
- (g) a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- (h) a summary of all spill or abnormal discharge events; and
- (i) any other information the District Manager requires 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 in accordance with the approval and that record drawings of the Works "as Constructed" are maintained for future references.
5. Condition 5 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 and before the compliance limits of Condition 7 are exceeded.
6. Condition 6 is imposed to ensure that the effluent discharged from the Works meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.
7. Condition 7 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected. As well, the inclusion of an operations manual, maintenance agreement with the manufacturer for the treatment process/technology and a complete set of "as constructed" drawings governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the Ministry. Such a 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.
8. Condition 8 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.

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.

## SCHEDULE "A"

1. Environmental Compliance Approval Application for Municipal and Private Sewage Works, submitted by C.F. Crozier & Associates Inc., dated June 24, 2021 and received on July 20, 2021.
  
2. Onsite Sewage Systems Design Brief - Osprey Valley Golf Course Expansion, along with drawings, dated July 2021, and prepared by C.F. Crozier & Associates Inc.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 4603-B5LS4T issued on December 20, 2018.**

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 Notice") shall state:

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

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

The Notice should also include:

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

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

This Notice must be served upon:

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

and

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

and

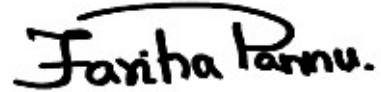
The Director appointed for the purposes of  
Part II.1 of the *Environmental Protection Act*  
Ministry of the Environment,  
Conservation and Parks  
135 St. Clair Avenue West, 1st Floor  
Toronto, Ontario  
M4V 1P5

**\* 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](http://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 23rd day of November, 2021

A handwritten signature in black ink that reads "Fariha Pannu." The signature is written in a cursive style with a large, sweeping initial 'F'.

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Fariha Pannu, P.Eng.

Director

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

YZ/

c: District Manager, MECP Halton-Peel District Office  
Katherine Rentsch, C.F. Crozier & Associates Inc.