

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 1486-C6USSH

Issue Date: September 17, 2021

Stonemanor Woods Holding Corp.
95 Barber Greene Road, No. 302
Toronto, Ontario
M3C 3E9

Site Location: Stonemanor Woods Development
974 Sunnidale Road Part of Lot 19, Concession 8
Township of Springwater, Simcoe County

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:

an amendment to the wastewater infrastructure and stormwater management Works servicing Stonemanor Woods Development, located in the Township of Springwater, to include extension of wastewater infrastructure and stormwater management Works related to Phase 4, for the collection, transmission, treatment and disposal of stormwater runoff, to provide Enhanced Level quality control, erosion protection, water balance, and quantity control through the attenuation of post-development peak flows for all storms events up to and including the 100-year storm to pre-development levels, consisting of the following:

Proposed Works:

sanitary sewers on Sanford Circle from approximately 65 metres west and 20 metres north of the intersection of Sanford Circle and Carney Gate, running north-east, south-east, and west along Sanford Circle, to the intersection of Sanford Circle and Carney Gate, discharging to the proposed sanitary sewer on Carney Gate;

sanitary sewers on Sanford Circle from approximately 65 metres west and 20 metres north of the intersection of Sanford Circle, running east along Sanford Circle, to the intersection of Sanford Circle and Carney Gate, discharging to the proposed sanitary sewer on Carney Gate;

sanitary sewers on Carney Gate from Sanford Circle to approximately 5 metres north of Trail Boulevard, discharging to the existing sanitary sewer on Carney Gate;

storm sewers on Sanford Circle from approximately 60 metres west and 20 metres north of the intersection of Sanford Circle and Carney Gate, running north-east and south-east along Sanford Circle, discharging to the proposed

storm sewer outlet within Sanford Circle located approximately 80 metres east and 36 metres north of the intersection of Sanford Circle and Carney Gate;

storm sewers on Sanford Circle from approximately 80 metres east of the intersection of Sanford Circle and Carney Gate, discharging to the proposed storm sewer outlet within Sanford Circle located approximately 80 metres east and 36 metres north of the intersection of Sanford Circle and Carney Gate;

storm sewer outlet on Sanford Circle and within an easement, located approximately 80 metres east and 36 metres north of the intersection of Sanford Circle and Carney Gate (between Phase 4 Lots 23 and 24), discharging via a vegetated outlet channel protected with Nag SC250 turf reinforcement mat or Equivalent Equipment to the proposed south bioretention swale;

storm sewers on Sanford Circle from approximately 60 metres west and 20 metres north of the intersection of Sanford Circle and Carney Gate, running south and east along Sanford Circle to the intersection of Sanford Circle and Carney Gate, discharging to the proposed storm sewers on Carney Gate;

storm sewers on Carney Gate from Sanford Circle to approximately 15 metres north of Trail Boulevard, discharging to the existing storm sewer on Carney Gate;

stormwater management facility (catchment area: 1.88 ha) , south bioretention swale, located east of Phase 4 Lots 23 to 26, having a total length of approximately 90 metres, a bottom width of 0.5 metres, and a depth of 0.7 metres, with a layer of compost amended topsoil to a depth of 0.3 metres, underlain by a clear stone storage layer having a width of 11.0 m, a total depth of 1.2 metres, wrapped with non-woven geotextile, with a 300 millimetre diameter perforated sub-drain at the centre of the swale equipped with five (5) 300 millimetre diameter perforated riser pipes to 0.1 metres above the bottom of the swale spaced approximately 20 metres apart, and a 3.0 metre wide emergency overflow channel lined with geotextile and rip-rap to the existing ditch along Dobson Road, providing a maximum storage volume of 486 cubic metres, storing and infiltrating the entire runoff volume from the 100-year storm event;

stormwater management facility (catchment area: 0.55 ha) , north bioretention swale, located east of Phase 4 Lots 17 to 23, having a total length of approximately 156 metres, a bottom width of 0.5 metres, and a

depth of 0.7 metres, with a layer of compost amended topsoil to a depth of 0.3 metres, with the most downstream 40 metre section underlain by a clear stone storage layer having a width of 11.0 m, a total depth of 1.2 metres, wrapped with non-woven geotextile, with a 300 millimetre diameter perforated sub-drain at the centre of the swale equipped with three (3) 300 millimetre diameter perforated riser pipes to 0.1 metres above the bottom of the swale spaced approximately 20 metres apart, and a 3.0 metre wide emergency overflow channel lined with geotextile and rip-rap to the existing ditch along Dobson Road, providing a maximum storage volume of 176 cubic metres, storing and infiltrating the entire runoff volume from the 100-year storm event;

Previous Works :

establishment of wastewater infrastructure and stormwater management Works servicing the 126 hectare Stonemanor Woods residential development located between Barrie Hill Road and Dobson Road, north of Sunnidale Road, within the Nottawasaga River watershed, in the community of Centre Vespra in the Town of Springwater, to construct wastewater infrastructure and stormwater management Works to service the west part of the 126 hectare Stonemanor Woods residential development, for the collection, treatment and disposal of stormwater run-off from the development, to provide Enhanced Level water quality control and erosion protection and to attenuate post-development peak flows to pre-development levels for all storm events up to and including the 100-year storm event, discharging via Barrie Hill Road and existing ditches to the Municipal Drain extending west from Barrie Hill Road to George Johnston Road, consisting of the following:

- **sanitary sewers** on Thompson Way, on the northern end (from MH74A to MH72A), approximately 70 metres long, connecting to existing sanitary sewers on Thompson Way;
- **storm sewers** on Thompson Way, on the northern end (from CBMHW177 to CBMHW176), approximately 66 metres long, connecting to existing storm sewers on Thompson Way;
- **sanitary sewage pumping station (West Sewage Pumping Station):** - one (1) sanitary sewage pumping station located on Block 668, on the east side of Barrie Hill Road and on the north side of Sunnidale Road, serving an anticipated population of approximately 1,359 people in an area of approximately 39.42 hectares at an average sewage flow of 428 m³/d and a peak sewage flow of 1,608 m³/d, consisting of a 3.6 metre diameter and 5.85 metre depth wet well equipped with three (3) submersible pumps, two main submersible pumps are used for the normal operation, one duty and one standby, each pump has a rated capacity of 22.7 litres per second at a total dynamic head of 29.6 metres, discharging to an

existing 250 mm sanitary sewer (MHW37A), identified below, under Previous Works, via the sanitary sewage forcemain, identified below, third submersible pump has a rated capacity of 4.8 litres per second at a total dynamic head of 8.32 metres, discharging to a tanker trucks until 20 dwellings become occupied and connected to the sewage collection system, and natural gas stand-by generator (to be registered on Environmental Activity and Sector Registry (EASR) before installation);

- **sanitary sewers** on Rugman Crescent, Thompson Way, Samuel Crescent, Mclsaac Drive, Daly Court, Victoria Wood Avenue, Jack Crescent, Redmond Crescent, connecting to the sanitary sewer on Victoria Wood Avenue and Redmond Crescent, identified below, discharging to the sanitary sewage pumping station (West Sewage Pumping Station), identified above, under Proposed Works;
- **sanitary sewage forcemain** located on Victoria Wood Avenue, 150 mm diameter HDPE DR11 pipe and approximately 640 metres in length, from the sanitary sewage pumping station, identified above under Proposed Works, to approximately 100 metres east of the intersection of Redmond Avenue and Victoria Wood Avenue, connecting to an existing 250 mm sanitary sewer (MHW37A), identified below, and ultimately discharging to the sanitary sewage pumping station (East Sewage Pumping Station), identified below;
- **storm sewers** on Rugman Crescent, Thompson Way, Samuel Crescent, Mclsaac Drive, Daly Court, Victoria Wood Avenue, Jack Crescent, Redmond Crescent, connecting to the storm sewer on Victoria Wood Avenue and Redmond Crescent, identified below, discharging to the bioretention and filtration facility, identified below;
- **bioretention and filtration facility (West Infiltration Basin - catchment area 45.6 ha):** - one (1) bioretention and filtration facility with one (1) sediment forebay, located on Block 668, on the east side of Barrie Hill Road and on the north side of Sunnidale Road, having a permanent pool volume in the sediment forebay of approximately 940 m³, and an extended detention volume of 34,710 m³ at a total depth of approximately 3.62 m above the forebay bottom, with a 500 mm thick bioretention filter media installed at the bottom of the main infiltration cell, discharging via a control manhole (CTRLMH1) and a 450 mm diameter outlet storm sewer to the existing ditch on Barrie Hill Road along Block 682, eventually discharging to the Municipal Drain which extends west from Barrie Hill Road to George Johnston Road;
- **culverts:** two (2) culverts, located on Barrie Hill Road, at Mclsaac Drive and Victoria Wood Avenue, to access roads to the site from Barrie Hill Road, providing sufficient capacity for conveying run-off for the 25-year storm event, discharging to the existing ditch on Barrie Hill Road and then discharging to the bioretention and

infiltration facility (West Infiltration Basin), identified above;

- **sanitary sewers** on Trail Boulevard, Oliver's Mill Road, Curtis Way, Travers Gate, Walker Line, Marks Road, Cameron Street, Moreau Way, Mclsaac Drive, Victoria Wood Avenue, Redmond Crescent, Block 675, and Block 669, connected to the East Sewage Pumping Station, identified below;
- **sanitary sewage pumping station (East Sewage Pumping Station)**, located on Block 669 at Moreau Way, consisting of wet well with three (3) submersible pumps, a control building, and natural gas stand-by generator (to be registered in the Environmental Activity and Sector Registry by the Owner), serving an anticipated population of approximately 2,754 people in an area of approximately 80.3 hectares at an average sewage flow of 868 m³/d and a peak sewage flow of 3,122 m³/d, connected to the Centre Vespra Wastewater Treatment Plant (ECA application 0946-9F8SME) by a forcemain, identified below;
- **sanitary sewage forcemain:** - a 200 mm diameter sanitary sewage forcemain, on Block 669, Moreau Way, Marks Road, Travers Gate, Oliver's Mill Road, Block 673, Trail Boulevard and Easement on Lots 524 and 525, connecting the East Sewage Pumping Station, identified above, to the Centre Vespra Wastewater Treatment Plant;
- **storm sewers** on Trail Boulevard, Oliver's Mill Road, Curtis Way, Travers Gate, Walker Line, Marks Road, Victoria Wood Avenue, Cameron Street, Moreau Way, Mclsaac Drive, Redmond Crescent, Block 675 and Block 669, discharging to a bioretention and filtration facility, identified below;
- **bioretention and filtration facility (East Infiltration Basin - catchment area 64.1 ha):** - one (1) bioretention and filtration facility with two (2) sediment forebays, located on Block 669, west of Moreau Way, just north-west of Sunnidale Road, having a permanent pool volume in each of the sediment forebays of approximately 1,062 m³ (west forebay) and 298 m³ (east forebay), respectively, and an extended detention volume of 42,537 m³ at a total depth of approximately 5.1 m above the forebay bottom, with a 500 mm thick bioretention filter media installed at the bottom of the main infiltration cell, discharging via a control manhole (CTRLMH1) and a 450 mm diameter outlet storm sewer along Block 677 on the north side of Sunnidale Road, and extending within the existing right-of-way of Sunnidale Road to beyond Dobson Road to an existing ditch on the north side of Sunnidale Road, eventually discharging to Bear Creek approximately 1 km distant;
- **oil and grit separator and infiltration gallery (East Park Block - catchment area 4.5 ha):** - one (1) oil and grit separator (CDC Model PMSU 3020_8 or Equivalent Equipment), located on Park Block 664 at Oliver's Mill Road, having a sediment storage capacity of 4.27 m³, an oil storage capacity of 1,045 litres, a

total storage volume of 8.25 m³ and a maximum treatment flow rate of 57 L/s, capturing the flow from the storm sewer on Oliver's Mill Road and discharging through a 525 mm diameter outlet pipe to a clear stone infiltration gallery (approximately 45 m by 40.5 m by 1.45 m thick), having a filtration storage volume of approximately 1,008 m³ with perforated underdrains, discharging via a 450 mm diameter storm sewer along the east side of Park Block 664 to the storm sewer on Marks Road;

- **oil and grit separator and infiltration gallery (East Open Space 1 - catchment area 17.0 ha):** - one (1) oil and grit separator (CDC Model PMSU 2015_5 or Equivalent Equipment), located on Open Space Block 666 at Trail Boulevard, just west of Victoria Wood Avenue, having a sediment storage capacity of 1.67 m³, an oil storage capacity of 439 litres, a total storage volume of 2.83 m³ and a maximum treatment flow rate of 20 L/s, capturing the flow from the storm sewer on Trail Boulevard and discharging through a 525 mm diameter outlet pipe to an approximately 250 m long clear stone infiltration trench (approximately 3 m wide by 2.2 m deep) located along the south side of Trail Boulevard and along the west and east side of Victoria Wood Avenue on Open Space Blocks 666 and 667, having a filtration storage volume of approximately 811 m³ with a perforated underdrain, discharging via a 450 mm diameter overflow pipe to the storm sewer on Trail Boulevard;
- **oil and grit separator and infiltration gallery (East Open Space 2 - catchment area 7.0 ha):** - one (1) oil and grit separator (CDC Model PMSU 3020_6 or Equivalent Equipment), located on Block 672 at Cameron Street, just west of Moreau Way, having a sediment storage capacity of 2.4 m³, an oil storage capacity of 696 litres, a total storage volume of 4.65 m³ and a maximum treatment flow rate of 57 L/s, capturing the flow from the storm sewer on Cameron Street and discharging through a 525 mm diameter outlet pipe to an approximately 185 m long clear stone infiltration trench (approximately 4 m wide by 3 m deep) located on Block 672 and along the east side of Block 667, having a filtration storage volume of approximately 1,071 m³ with two (2) perforated underdrains, discharging via a 525 mm diameter storm sewer on Block 669 to the East Infiltration Basin, identified above;

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works;

all in accordance with the submitted application and supporting documents listed in Schedule A forming part of this Approval.

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

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "BOD5"(also known as TBOD₅) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;
3. "Director" means a person appointed by the *Minister* pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;
4. "District Manager" means the District Manager of the appropriate local District Office of the Ministry, where the Works are geographically located;
5. "E. coli" refers to the thermally tolerant forms of *Escherichia* that can survive at 44.5 degrees Celsius;
6. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;
7. "Emergency Situation" means a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the Sewage Pumping Station or an unforeseen flow condition that may result in:
 1. a danger to the health or safety of any person; or
 2. injury or damage to any property, or serious risk of injury or damage to any property;
8. "Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;
9. "Event" means an action or occurrence at the Sewage Pumping Station that causes a Sewage Pumping Station Overflow. An Event ends when there is no recurrence of a Sewage Pumping Station Overflow in the 12-hour period following the last Sewage Pumping Station Overflow. Two Events are separated by at least 12 hours during which there has been no recurrence of a Sewage Pumping Station Overflow;
10. "Limited Operational Flexibility" (LOF) means any modifications that the Owner is permitted to make to the Works under this Approval;
11. "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;
12. "MNRF" means the Ministry of Natural Resources and Forestry of the government

of Ontario and includes all officials, employees or other persons acting on its behalf;

13. "Notice of Modifications" means the form entitled "Notice of Modification to Sewage Works";
14. "Owner" means Stonemanor Woods Holding Corp., and includes its successors and assignees;
15. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
16. "Previous Works" means those portions of the sewage Works previously approved under an Approval;
17. "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*;
18. "Sewage Pumping Station Overflow" means any discharge from a Sewage Pumping Station to the environment that does not undergo any treatment or only receives partial treatment before it is discharged to the environment;
19. "Substantial Completion" has the same meaning as "substantial performance" in the *Construction Lien Act*;
20. "Water Supervisor" means the Water Supervisor of the appropriate local office of the Safe Drinking Water Branch of the Ministry, where the Works are geographically located;
21. "Wet Event" means a rainfall event with a minimum of 15 millimetres of rain in a 24 hour period;
22. "Works" means the sewage works described in the Owner's application, this Approval, and the modifications made under Limited Operational Flexibility.

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 CONDITIONS

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. The designation of the Township of Springwater as the operating authority of the site on the application for approval of the Works does not relieve the Owner from the responsibility of complying with any and all of the Conditions of this Approval.
3. 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.
4. 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.
5. Where there is a conflict between the documents listed in Schedule A and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
6. 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.
7. The issuance of, and compliance with the conditions of, this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority/MNR necessary to construct or operate the sewage works; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.
2. In the event that completion and commissioning of any portion of the Works is anticipated to be delayed beyond the specified expiry period, the Owner shall submit an application of extension to the expiry period, at least twelve (12) months prior to the end of the period. The application for extension shall

include the reason(s) for the delay, whether there is any design change(s) and a review of whether the standards applicable at the time of Approval of the Works are still applicable at the time of request for extension, to ensure the ongoing protection of the environment.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:
 - a. change of 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; or
 - 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.
3. The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this Approval.
4. Notwithstanding any other requirements in this Approval, upon transfer of the ownership or assumption of the Works to a municipality if applicable, any reference to the District Manager shall be replaced with the Water Supervisor.

4. UPON THE SUBSTANTIAL COMPLETION OF THE WORKS

1. Upon the Substantial Completion of the Works, the Owner shall prepare a statement, certified by 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 personnel.
2. Within six (6) months of the Substantial Completion of the Works, a set of as-built drawings showing the works "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the Works for the operational life of the Works.

5. SEWAGE PUMPING STATION OVERFLOW

1. Any Sewage Pumping Station Overflow is prohibited, except:
 - a. in an Emergency Situation; and
 - b. where the Sewage Pumping Station Overflow is a direct and unavoidable result of a planned maintenance procedure, the Owner having notified the District Manager at least fifteen (15) days prior to the occurrence of the Sewage Pumping Station Overflow and the District Manager having given written consent of the Sewage Pumping Station Overflow.
2. The Owner shall forthwith notify the Spills Action Centre (SAC) and the Medical Officer of Health of all Events as soon as possible. This notice shall include, at a minimum, the following information:
 - a. the date, time, and duration of the Event;
 - b. the location of the Sewage Pumping Station Overflow and the receiver;
 - c. the measured or estimated volume of the Event (unless the Event is ongoing); and
 - d. the reason for the Event.
3. The Owner shall submit a summary report of the Sewage Pumping Station Overflow Events to the District Manager on a quarterly basis, no later than each of the following dates for each calendar year: February 14, May 15, August 14, and November 15. The summary reports shall be in a format specified by the Ministry, which shall include, at a minimum, the following information on any Events that occurred during the preceding quarter:
 - a. the date of the Event(s);
 - b. the measured or estimated volume of the Event(s);
 - c. the duration of the Event(s);
 - d. the location of the Sewage Pumping Station Overflow and the receiver;
 - e. the reason for the Event(s); and
 - f. the impact of the Event(s) on the receiver(s).
4. The Owner shall use best efforts to collect a representative sample consisting of a minimum of two (2) grab samples of the Sewage Pumping Station Overflow and have it analyzed for the parameters outlined in Condition 7 using the protocols specified in Condition 7, one at the beginning of the Event and the second approximately near the end of the Event, to best reflect the effluent quality of the Sewage Pumping Station Overflow.
5. The Owner shall maintain a logbook of all Sewage Pumping Station

Overflows, which shall contain, at a minimum, the types of information set out in sub-conditions 2(a) to 2(d) in respect of each Sewage Pumping Station Overflow.

6. OPERATION AND MAINTENANCE

1. The Owner shall exercise due diligence in ensuring that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Approval are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this Approval and the EPA and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.
2. If applicable, any proposed storm sewers or other stormwater conveyance in this Approval can be constructed but not operated until the proposed stormwater management facilities in this Approval or any other Approval that are designed to service the storm sewers or other stormwater conveyance are in operation.
3. The Owner shall make all necessary investigations, take all necessary steps and obtain all necessary approvals so as to ensure that the physical structure, siting and operations of the Works do not constitute a safety or health hazard to the general public.
4. The Owner shall inspect and ensure that the design minimum liquid retention volume is maintained in the Works at all times, except when maintenance is required.
5. The Owner shall undertake an inspection of the condition of the Works, at least once a year, and undertake any necessary cleaning and maintenance to ensure that sediment, debris and excessive decaying vegetation are removed from the Works to prevent the excessive build-up of sediment, oil/grit, debris and/or decaying vegetation, to avoid reduction of the capacity and/or permeability of the Works, as applicable. The Owner shall also regularly inspect and clean out the inlet to and outlet from the Works to ensure that these are not obstructed.
6. The Owner shall design, construct and operate the Works with the objective that the effluent from the stormwater management Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen, foam or discoloration on the receiving waters.
7. The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep

the logbook at the Owner's administration office for inspection by the Ministry. The logbook shall include the following:

- a. the name of the Works; and
 - b. the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed and method of clean-out of the Works.
8. The Owner shall prepare an operations manual prior to the commencement of operation of the Works, that includes, but is not necessarily limited to, the following information:
- a. operating and maintenance 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 the Works;
 - 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 to the Spills Action Centre (SAC), the Medical Officer of Health, and 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 provide for the overall operation of the Works an operator who holds a licence that is applicable to that type of facility and that is of the same class as or higher than the class of the facility in accordance with Ontario Regulation 129/04.
11. The Owner shall develop a Response Plan in the event of unplanned Sewage Pumping Station Overflows, consisting of measures to mitigate and prevent the contamination of drinking water.

7. TEMPORARY EROSION AND SEDIMENT CONTROL

1. The Owner shall install and maintain temporary sediment and erosion control

measures during construction and conduct inspections once every two (2) weeks and after each significant storm event (a significant storm event is defined as a minimum of 25 mm of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.

2. The Owner shall maintain records of inspections and maintenance which shall be made available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures, if any, undertaken to maintain the temporary sediment and erosion control measures.

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 Sewage Pumping Station Overflow stream or effluent stream of the stormwater management works over the time period being monitored.
2. 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, as outlined in Schedule B.
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.

9. REPORTING

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

2. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
3. The Owner shall prepare and submit a performance report to the District Manager 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, including an overview of the success and adequacy of the Works, including demonstration using the monitoring data that the appropriate level of quality control has been achieved;
 - b. a description of any operating problems encountered and corrective actions taken;
 - c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works, including an estimate of the quantity of any materials removed from the stormwater management Works;
 - d. a summary of the calibration and maintenance carried out on all monitoring equipment;
 - e. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - f. a summary of all Sewage Pumping Station Overflows, spill or abnormal discharge events;
 - g. a copy of all Notice of Modifications submitted to the District Manager as a result of Schedule C, Section 1, with a status report on the implementation of each modification;
 - h. a report summarizing all modifications completed as a result of Schedule C, Section 3; and
 - i. any other information the District Manager requires from time to time.
4. The Owner shall, within thirty (30) calendar days of issuance of this Approval, submit a Municipal Wastewater System Profile Information Form, and shall resubmit the updated document every time a notification is provided to the District Manager in compliance with requirements of change of ownership under this Approval.

10. LIMITED OPERATIONAL FLEXIBILITY

1. The Owner may make modifications to the Works in accordance with the Terms and Conditions of this Approval and subject to the Ministry's "Limited Operational Flexibility Criteria for Modifications to Sewage Works", included under Schedule C of this Approval, as amended.
2. Sewage works proposed under Limited Operational Flexibility shall adhere to the design guidelines contained within the Ministry's publication "Design Guidelines for Sewage Works 2008", as amended.
3. The Owner shall ensure at all times, that the Works, related equipment and appurtenances which are installed or used to achieve compliance are operated in accordance with all Terms and Conditions of this Approval.
4. For greater certainty, the following are not permitted as part of Limited Operational Flexibility:
 - a. modifications to the Works that result in an increase of the approved Rated Capacity of the Works;
 - b. modifications to the Works that may adversely affect the approved effluent quality criteria or the location of the discharge/outfall;
 - c. modifications to the treatment process technology of the Works, or modifications that involve construction of new reactors (tanks) or alter the treatment train process design;
 - d. modifications to the Works approved under s.9 of the EPA; and
 - e. modifications to the Works pursuant to an order issued by the Ministry.
5. Implementation of Limited Operational Flexibility is not intended to be used for piecemeal measures that result in major alterations or expansions.
6. If the implementation of Limited Operational Flexibility requires changes to be made to the Emergency Response, Spill Reporting and Contingency Plan, the Owner shall, as deemed necessary in consultation with the District Manager, provide a revised copy of this plan to the local fire services authority prior to implementing Limited Operational Flexibility.
7. For greater certainty, any modification made under the Limited Operational Flexibility may only be carried out after other legal obligations have been complied with, including those arising from the *Environmental Protection Act*, *Niagara Escarpment Planning and Development Act*, *Oak Ridges Moraine Conservation Act*, *Lake Simcoe Protection Act* and *Greenbelt Act*.
8. Prior to implementing Limited Operational Flexibility, the Owner shall complete a Notice of Modifications describing any proposed modifications to the Works and submit it to the District Manager.

11. RECORD KEEPING

1. 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.

Schedule A

1. Application for Environmental Compliance Approval dated January 8, 2021 and received on January 8, 2021, prepared by Capes Engineering Ltd. on behalf of Stonemanor Woods Holding Corp.;
2. Stonemanor Woods - Block 349 Detailed Servicing and Stormwater Management Report, dated December 10, 2020, prepared by Capes Engineering Ltd.;
3. Engineering Drawings, a set of 25 engineering drawings, signed, stamped and dated on December 10, 2020, prepared by prepared by Capes Engineering Ltd.;
4. Application for a new Environmental Compliance Approval, dated March 12, 2019 and received on April 4, 2019, submitted by R.J. Burnside & Associates Ltd., on behalf of Stonemanor Woods Holding Corp.;
5. Engineering Drawings signed and stamped, March 14, 2018, and prepared by R.J. Burnside & Associates Ltd.;
6. Pipe Data Form - Watermain, Storm Sewer, Sanitary Sewer, and Forcemain Design Supplement to Application for Approval for Water and Sewage Works, for proposed storm and sanitary sewers, prepared by R.J. Burnside & Associates Ltd..
7. E-mails received from Paul Ready, C.Tech., R.J. Burnside & Associates Ltd., dated September 30 and October 01, 2019;
8. Application for Environmental Compliance Approval, dated July 6, 2017 and received on July 12, 2017, submitted by R.J. Burnside & Associates Ltd.;
9. Memorandum for Stonemanor Woods Development, Project RFB-00000120-01/File No.: 40.3, East Sewage Pumping Station, dated June 5, 2017, prepared by exp Services Inc.
10. Memorandum for Stonemanor Woods Development, Project RFB-00000120-01/File No.: 40.3, West Sewage Pumping Station, dated June 5, 2017, prepared by exp Services Inc.

11. Pipe Data Form and Design Brief for Stonemanor Woods Development – East Sewage Pumping Station, dated July 2017, prepared by R.J. Burnside & Associates Ltd.;
12. Pipe Data Form and Design Brief for Stonemanor Woods Development – West Sewage Pumping Station, dated July 2017, prepared by R.J. Burnside & Associates Ltd.; and
13. Stonemanor Woods Development, Phase 2C, Burnside Project No. 300032028 Engineering Drawings C001, C101 to C105, C110, C115, C116, C211, C213, C301, C302, C306, C307, C311, C438, C439, C444, C445, C446, C501, and C701 to C708, dated July 10, 2017, prepared by R.J. Burnside & Associates Ltd.;
14. Stonemanor Woods Development Stormwater Management West Side- Addendum Report, for Stonemanor Woods Holding Corp, dated February, 2016, prepared by R.J. Burnside & Associates Ltd.;
15. Yorkwood Homes Subdivision-West Sewage Pumping Station Report, dated January, 2015, prepared by exp Services Inc; and,
16. Set of Engineering Drawings (149 drawings) for Stonemanor Woods Development, dated March 21, 2016, prepared by R.J. Burnside & Associates Ltd.

Schedule B

Table 1 - Monitoring during a Sewage Pumping Station Overflow Event

(Samples to be collected from the Sewage Pumping Station Overflow stream)

Sample Type	Grab
Frequency	One sample at the beginning of the Event and the second sample approximately near the end of the Event
Parameters	BOD5, Total Suspended Solids, Total Phosphorus, Total Ammonia Nitrogen, E. coli(Note 1 see below) ,and pH

Note 1: Sampling and analysis shall be performed only for Events that occur between April 1 and October 31 inclusive

Table 2 - Effluent Monitoring for Stormwater Management Works

(Samples to be collected from the influent and effluent streams of each of the East and West Infiltration Basins)

Sample Type	Grab
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Frequency	Three (3) rainfall Wet Events per year, with two (2) of the events occurring between May and September
Parameters	Total Suspended Solids, Phosphorus and Temperature

Schedule C

Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works

1. The modifications to sewage works approved under an Environmental Compliance Approval (Approval) that are permitted under the Limited Operational Flexibility (LOF), are outlined below and are subject to the LOF conditions in the Approval, and require the submission of the Notice of Modifications. If there is a conflict between the sewage works listed below and the Terms and Conditions in the Approval, the Terms and Conditions in the Approval shall take precedence.
 1. Sewage Pumping Stations
 - a. Alter pumping capacity by adding or replacing equipment where new equipment is located within an existing sewage pumping station site, provided that the modifications do not result in an increase of the pumping station's Rated Capacity and the existing flow process and/or treatment train are maintained, as applicable.
 - b. Forcemain relining and replacement with similar pipe size where the nominal diameter is not greater than 1,200 millimetres.
 2. Pilot Systems
 1. Installation of pilot systems for new or existing technologies provided that:
 - a. any effluent from the pilot system is discharged to the inlet of the sewage pumping station or hauled off-site for proper disposal;
 - b. any effluent from the pilot system discharged to the inlet of the sewage pumping station or sewage conveyance system does not significantly alter the composition/concentration of the influent sewage to be treated in the downstream process; and that it does not add any inhibiting substances to the downstream process; and
 - c. the pilot system's duration does not exceed a maximum of two (2) years; and a report with results is submitted to the Director and Water Supervisor three (3) months after the completion of the pilot project.

2. Sewage works that are exempt from section 53 of the OWRA by O. Reg. 525/98 continue to be exempt and are not required to follow the notification process under this Limited Operational Flexibility.
3. Normal or emergency operational modifications, such as repairs, reconstructions, or other improvements that are part of maintenance activities, including cleaning, renovations to existing approved sewage works equipment, provided that the modification is made with Equivalent Equipment, are considered pre-approved.
4. The modifications noted in section (3) above are not required to follow the notification protocols under Limited Operational Flexibility, provided that the number of pieces and description of the equipment as described in the Approval does not change.
- 5.

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA AND SEND A COPY TO THE WATER SUPERVISOR (FOR MUNICIPAL) OR DISTRICT MANAGER (FOR NON-MUNICIPAL SYSTEMS)

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility

(Insert the ECA's owner, number, issuance date and notice number, which should start with "01" and consecutive numbers thereafter)

ECA Number	Issuance Date (mm/dd/yy)	Notice number (if applicable)
ECA Owner		Municipality

Part 2: Description of the modifications as part of the Limited Operational Flexibility

(Attach a detailed description of the sewage works)

Description shall include:

1. A detail description of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.)
2. Confirmation that the anticipated environmental effects are negligible.
3. List of updated versions of, or amendments to, all relevant technical documents that are affected by the modifications as applicable, i.e. submission of documentation is not required, but the listing of updated documents is (design brief, drawings, emergency plan, etc.)

Part 3 – Declaration by Professional Engineer

I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:

1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario;
 2. Conforms with the Limited Operational Flexibility as per the ECA;
 3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations.
- I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate.

Name (Print)	PEO License Number
Signature	Date (mm/dd/yy)
Name of Employer	

Part 4 – Declaration by Owner

I hereby declare that:

1. I am authorized by the Owner to complete this Declaration;
 2. The Owner consents to the modification; and
 3. These modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA.
4. The Owner has fulfilled all applicable requirements of the *Environmental Assessment Act*.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate.

Name of Owner Representative (Print)	Owner representative's title (Print)
Owner Representative's Signature	Date (mm/dd/yy)

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

1. Condition 1 is imposed to ensure that the Works are constructed and operated in the manner in which they were described and upon which approval was granted. 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. Condition 1.7 is included to emphasize that the issuance of this Approval does not diminish any

other statutory and regulatory obligations to which the Owner is subject in the construction, maintenance and operation of the Works. The Condition specifically highlights the need to obtain any necessary conservation authority approvals. The Condition also emphasizes the fact that this Approval doesn't limit the authority of the Ministry to require further information.

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 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 updated and maintained for future references.
5. Condition 5 is included to indicate that Sewage Pumping Station Overflows are prohibited, except in circumstances where the failure to overflow could result in greater injury to the public interest than the Sewage Pumping Station Overflow itself. The notification and documentation requirements allow the Ministry to take action in an informed manner and ensure that the Owner is aware of the extent and frequency of Events.
6. Condition 6 is included to ensure that the Works are properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. The Condition also ensures that a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and is made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, proper plant operation, and identification and planning for contingencies during abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the operation of the Works. Condition 6 is included as regular inspection and necessary removal of sediment and excessive decaying vegetation from the stormwater Works are required to mitigate the impact of sediment, debris and/or decaying vegetation on the treatment capacity of the stormwater management Works. The Condition also ensures that adequate storage is maintained in the Works at all times as required by the design. Furthermore, this Condition is included to ensure that the Works are operated and maintained to function as designed.
7. Condition 7 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the

impact on the downstream receiving watercourse during construction until they are no longer required.

8. Condition 8 is included to provide additional details on the monitoring of Sewage Pumping Station Overflows and 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 do not cause any impairment to the receiving watercourse or the environment.
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 ensure that the Works are operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider. These conditions are also included to ensure that a Professional Engineer has reviewed the proposed modifications and attests that the modifications are in line with that of Limited Operational Flexibility, and provide assurance that the proposed modifications comply with the Ministry's requirements stipulated in the terms and conditions of this Approval, Ministry policies, guidelines, and industry engineering standards and best management practices.
11. Condition 11 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 7089-BFUPAP issued on October 10, 2019

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, 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 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 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 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 <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 17th day of September,
2021

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

JW/

c: District Manager, MECP Barrie District Office
Clayton Capes, CAPES Engineering Ltd.