

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0541-BL3PAG
Issue Date: January 31, 2020

2444681 Ontario Inc.
65 Fardon Way
Ottawa, Ontario
K1G 4N7

Site Location: 900 Mill Ridge Rd Part of Lot 9, Concession 7
McNab-Braeside Township, County of Renfrew
K7S 3G8

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 establishment of stormwater management Works to serve the Madawaska Shores Subdivision, located in the McNab-Braeside Township, for the collection, transmission, treatment and disposal of stormwater runoff from a total catchment area of 129.3 hectares divided between of 21.3 hectares of on-site area and 108 hectares of off-site area, to provide Enhanced Level water quality protection and erosion control, and to attenuate post-development peak flows to pre-development peak flows for all storm events up to and including the 100-year storm event, discharging to the Madawaska River, consisting of the following:

- one (1) 0.6 metre diameter CSP culvert servicing the road crossing at Mill Ridge Road, discharging at a maximum rate of 0.219 cubic metres per second under the 100-year storm event to an existing unevaluated wetland located east of Mill Ridge Road, ultimately discharging to the Madawaska River;
- **enhanced grassed swales (catchment area 8.81 hectares)**, located along the north and south side of Paul Bertrand Drive between stations 0+000 and 0+510, having a total length of 1010 metres, a bottom width of 0.5 metres, maximum side slopes of 3:1, a maximum depth of 1.0 metres, a maximum flow depth of 0.5 metres (100-year storm event), and a 150 millimetre diameter perforated storm sub-drain between Station 0+100 and Station 0+380, wrapped in filter fabric and installed in a clear stone layer, allowing a maximum discharge of 1.38 cubic metres second under the 100-year storm event to the wet swale indicated below;
- one (1) 0.9 metre diameter CSP culvert servicing the relocated watercourse located between lots 25 and 26, accommodating a flowrate of 1.50 cubic metres per second under the 100-year storm event

within the wet swale indicated below;

- **wet swale (catchment area 19.25 hectares)**, located adjacent to Paul Bertrand Drive between lot 2 and lot 26, having a total length of 550 metres, a bottom width of approximately 2.2 metres, a maximum available storage volume of 10,084 cubic metres and a maximum depth of 2.2 metres, accepting inflow from the enhanced grassed swales located between stations 0+000 and 0+520 and from adjacent ground surfaces, complete with an outlet structure consisting a 3 metre wide flat-bottomed riprap-lined weir overtop a of a 4 metre long clay berm with 2:1 side slopes, two (2) 400 millimetre diameter steel outlet pipes, with the lower elevation pipe equipped with a 141 millimetre diameter orifice plate, discharging at a rate of 0.250 cubic metres per second to the main ravine located between lots 11 and 12;
- **enhanced grassed swales (catchment area 0.892 hectares)**, located along the north and south side of Paul Bertrand Drive between stations 0+520 and 0+765, having a total length of 510 metres, a bottom width of 0.5 metres, maximum side slopes of 3:1, a maximum depth of 1.0 metres, a maximum flow depth of 0.2 metres (100-year storm event), complete with flow check dams along the north side of the roadway adjacent to lots 12 to 15, allowing a maximum discharge of 0.282 cubic metres per second under the 100-year storm event to the main ravine located between lots 11 and 12;
- one (1) 1.8 metre diameter CSP culvert servicing the road crossing at Paul Bertrand Drive between lots 11 and 12, discharging at a rate of 4.169 cubic metres per second under the 100-year storm event to the main ravine located between lots 11 and 12;
- **enhanced grassed swales (catchment area 1.494 hectares)**, located along the north and south side of Paul Bertrand Drive between stations 0+765 and 1+030, having a total length of 530 metres, a bottom width of 0.5 metres, maximum side slopes of 3:1, a maximum depth of 1.0 metres, a maximum flow depth of 0.2 metres (100-year storm event), complete with flow check dams along the north side of the roadway adjacent to lots 16 to 24, allowing a maximum discharge of 0.304 cubic metres per second under the 100-year storm event to the secondary ravine located between lots 16 and 17;
- one (1) 0.9 metre diameter CSP culvert servicing the road crossing at Paul Bertrand Drive between lots 16 and 17, discharging at a rate of 0.552 cubic metres per second under the 100-year storm event to the secondary ravine located between lots 16 and 17;
- **enhanced grassed swales (catchment area 1.525 hectares)**, located along the north and south side of Paul Bertrand Drive between stations 1+030 and 1+128, having a total length of 220 metres, a bottom width of 0.5 metres, maximum side slopes of 3:1, a maximum depth of 1.0 metres, and a maximum flow depth of 0.20 metres (100-year storm event), allowing a maximum discharge of 0.169 cubic metres per second under the 100-year storm event to drainage easement ditch located between lots 22 and 23;

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. "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;
3. "District Manager" means the District Manager of the appropriate local District Office of the Ministry, where the Works are geographically located;
4. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;
5. "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;
6. "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;
7. "Owner" means 2444681 Ontario Inc., and includes its successors and assignees;
8. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
9. "Works" means the sewage Works described in the Owner's application, and this Approval.

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. 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 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.
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.
6. 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/MNRF 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. OPERATION AND MAINTENANCE

1. 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.
2. 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.
3. 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.
4. The Owner shall construct, operate and maintain the Works with the objective that the effluent from the 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.
5. 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 administrative 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.

6. 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. contingency plans and procedures for dealing with potential spills and any other abnormal situations and for notifying the District Manager; and
 - e. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
7. The Owner shall maintain the operations manual current and retain a copy at the Owner's administrative office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

5. 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 millimetres 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.

6. REPORTING

1. One (1) week prior to the start-up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.
2. The Owner shall, upon request, make all reports, manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

3. The Owner shall prepare a performance report within ninety (90) days following the end of the period being reported upon, and submit the report(s) to the District Manager when requested. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be prepared to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:
 - a. a description of any operating problems encountered and corrective actions taken;
 - b. 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 Works;
 - c. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - d. a summary of all spill or abnormal discharge events; and
 - e. any other information the District Manager requires from time to time.

7. 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 October 18, 2019 and received on October 31, 2019, submitted by Kollaard Associates Inc. on behalf of 2444681 Ontario Inc.;
2. Pipe Data Form, prepared by Kollaard Associates Inc.;
3. Engineering Drawings, signed, stamped and dated September 19, 2019, prepared by Kollaard Associates Inc.;
4. Stormwater Management Report, Madawaska Shores Subdivision, dated September 13, 2019, prepared by Kollaard Associates Inc.;
5. Culvert Design Calculations, Madawaska Shores Subdivision, dated July 16, 2018, prepared by Kollaard Associates Inc.;
6. Geotechnical Investigation, Slope Stability Assessment Proposed Residential Subdivision Part of Lot 9, Concession 7, dated September 2, 2016, prepared by Houle Chvevrier Engineering.; and
7. Consolidated Full Environmental Impact Study - Madawaska Shores Subdivision, dated February 26, 2018, prepared by Kerry Reed, Ministry of Natural Resources and Forestry.

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 1.6 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 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 as regular inspection and necessary removal of sediment and excessive decaying vegetation from the Works are required to mitigate the impact of sediment, debris and/or decaying vegetation on the treatment capacity of the 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.

5. Condition 5 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.
6. Condition 6 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.
7. Condition 7 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.

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.

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 31st day of January, 2020

A handwritten signature in black ink that reads "Aziz Ahmed". The signature is written in a cursive style and is underlined with a single horizontal line.

Aziz Ahmed, P.Eng.

Director

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

AN/

c: District Manager, MECP Ottawa
Steven DeWit, Kollard Associates Inc.