

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 5937-BMG32Y
Issue Date: March 16, 2020

Ambria (Otonabee) Limited
400 Creditstone Rd, No. 9
Vaughan, Ontario
L4K 3Z3

Site Location: Part Lots 20 and 21, Concession 16
(Part B&C Reference Plan 21)
Lot 20, 21, Concession 16
Otonabee-South Monaghan Township, County of
Peterborough
K9J 6Y3

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:

establishment of wastewater infrastructure Works for the proposed 20.74 ha residential development located in the Township of Otonabee South Monaghan and bordered by the Otonabee River to the West, Matchett Line to the east and undeveloped land to the north and south, for the collection and conveyance of sanitary sewage and for the collection, treatment and disposal of stormwater run-off from contributing areas within the development as identified in the Stormwater Management Report for the development, to provide Enhanced Level water quality control and erosion protection, consisting of the following:

Sanitary sewers in size of 200 mm diameter within the proposed development, on Camelot Grove from Matchett Line to Golden Meadows Drive, on Autumn Frost Road from East leg - Camelot Grove approximately 60 m west of Matchett Line to West leg - Camelot Grove approximately 100 m east of Golden Meadows Drive, on Golden Meadows Drive (South leg) from Camelot Grove to South leg to approximately 200 m south of Camelot Grove, on Golden Meadows Drive (North leg) from Camelot Grove to North leg to end of cul-de-sac, on Wishing Well Lane from Golden Meadows Drive to North to end of cul-de-sac, on Moonstruck Court from Wishing Well Lane to East to end of cul-de-sac, discharging to a future pumping station (not included in this Approval);

Storm Conveyance System

- V-shaped ditches along the streets within the proposed development, designed to convey flows up to 100-year storm event, having a minimum depth of 1.0 m, a top width of 6.0 m, side slopes of 3:1 on the left side and 2.7:1 on the right side, with a minimum longitudinal slope of 0.5% and a minimum capacity of

approximately 2.43 m³/s, collecting stormwater runoff from the site, discharging to stormwater management pond #1 to the south and stormwater management pond #2 to the north;

- new 450 mm diameter concrete culvert S1 at Golden Meadows Drive (South leg) with an approximately slope of 0.5%, 750 mm diameter concrete culvert S2 at Golden Meadows Drive (South leg) with an approximately slope of 0.5%, and 1200 mm x 600 mm concrete culvert S3 at the inlet of south stormwater management pond #1 with an approximately slope of 2.1%;
- new 1200 mm x 600 mm concrete culvert N1 at west end of Camelot Grove with an approximately slope of 0.5%, 600 mm diameter concrete culvert N2 at Autumn Forst Road (west leg) with an approximately slope of 0.95%, 300 mm diameter concrete culvert N3 at Autumn Forst Road (east leg) with an approximately slope of 3.7%, 450 mm diameter concrete culvert N4 at Golden Meadows Drive (North leg) with an approximately slope of 0.6%, 1800 mm x 600 mm concrete culvert N5 at Golden Meadows Drive (North leg) with an approximately slope of 0.75%, 600 mm diameter concrete culvert N6 at Wishing Well Lane crossing Moonstruck Court with an approximately slope of 1.2%, 1800 mm x 600 mm concrete culvert N7 at the inlet of north stormwater management pond #2 with an approximately slope of 0.57%, and 675 mm diameter concrete culvert N8 at the inlet of north stormwater management pond #2 with an approximately slope of 0.5%;

South Wet Pond (Pond #1)

one (1) wet pond with a sediment forebay, located at the south side of the development, servicing approximately 8.85 hectares of catchment areas including 5.11 ha of the south portion of the development and 3.74 ha of external lands with an average imperviousness of 34.8%, designed to provide Enhanced Level treatment and erosion protection, with a permanent pool volume of 5,288 cubic metres provided by 1.3 m deep permanent pool and an extended detention volume of 726 cubic metres, and a total storage volume of approximately 12,412 cubic metres at a total depth of approximately 2.3 m, discharging via a control structure complete with a hicken bottom structure with one (1) 1500 mm diameter perforated CSP riser fitted with a 200 mm diameter reverse sloped inlet pipe for extended detention release and a 95 mm diameter orifice plate (at elevation of 191.00 m) at the upstream of a 1,200 mm diameter outlet control manhole, a 450 mm diameter outlet pipe at 0.5% slope, and a 10.0 m wide emergency overflow weir at elevation 192.00 m, to a plunge pool and ultimately to Otonabee River;

North Wet Pond (Pond #2)

one (1) wet pond with a sediment forebay, located at the north side of the development, servicing approximately 11.39 hectares of catchment areas including 10.9 ha of the north portion of the development and 0.49 ha of external lands with an average imperviousness of 54%, designed to provide Enhanced Level treatment and erosion protection, with a permanent pool volume of 4,190 cubic metres provided by 1.4 m deep permanent pool and an extended detention volume of 1,188 cubic metres, and a total storage volume of approximately 8,160 cubic metres at a total depth of approximately 2.1 m, discharging via a control structure complete with a hicken bottom structure with one (1) 1500 mm diameter perforated CSP riser fitted with a 200 mm diameter reverse sloped inlet pipe for extended detention release and a 130 mm diameter orifice plate (at elevation of 189.50 m) at the upstream of a 1,200 mm diameter outlet control manhole, a 450 mm diameter outlet pipe at 0.5% slope, and a 10.0 m wide emergency overflow weir at elevation 190.20 m, to a channel at 0.5% slope and ultimately to Otonabee River;

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. "Owner" means Ambria (Otonabee) Limited, and includes its successors and assignees;
7. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40 , as amended;
8. "Wet Event" means a rainfall event with a minimum of 15 millimetres of rain in a 24-hour period;
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 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 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 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 inspect and ensure that the design minimum liquid retention volume is maintained in the Works at all times, except when maintenance is required.
4. 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.
5. 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.
6. 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;

- b. the name of the individual(s) conducting the inspections/maintenance; and
 - c. 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.
7. The Owner shall prepare an operation 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.
8. 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 millimetre 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. 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.

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.
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 require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.

Schedule A

1. Application for Environmental Compliance Approval submitted by John Levie from Clearford-ASI, dated September 12, 2019 and received on November 4, 2019;
2. Ambria (Otonabee) Inc. Stormwater Management Report along with attachments and drawings, dated October 2017, prepared by Cole Engineering Group Ltd.;
3. Revised design calculation for pond sizing, received on March 12, 2020, prepared by Cole Engineering Group Ltd.;

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 16th day of March, 2020



A. Ahmed

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

YZ/
c: District Manager, MECP Peterborough District Office
John Levie, Clearford-ASI