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Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement
climatique

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2592-AQPKA8

Issue Date: September 1, 2017

Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources and Forestry
1593 Bruce Road 33 R.R. #1
Macgregor Point Provincial Park
Town of Saugeen Shores, Ontario
NOH 2C5

Site Location: Cabot Head Research Station

Site No. 1:
753 Cabot Head Road
Lot 48, Concession 16, East of The Bury Road
Former Township of Lindsay
Municipality of Northern Bruce Peninsula, County of Bruce
N0H 1Z0

Site No. 2:
Original Shore Road Allowance in Front of Lot 48 Concession 16, East of The Bury Road
Former Township of Lindsay
Municipality of Northern Bruce Peninsula, County of Bruce
N0H 1Z0

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 a proposed sewage works for the collection, transmission, treatment and subsurface disposal of domestic sewage with Rated Capacity of 3,600 litres per day (L/d) to serve two (2) existing buildings (Grebe Lodge and Wingfield Cottage) for the Cabot Head Research Station located on two (2) separate parcels of land (Site No.1 & No.2) as described above, and including an existing composting toilet, as follows:

PROPOSED WORKS (Grebe Lodge & Wingfield Cottage) Q = 3,600 L/d

Proposed Raw Sewage Pump Station at Grebe Lodge (Site No. 2)

a proposed one-compartment precast concrete pump station with a minimum diameter of 900 mm and a total depth of approximately 1.8 m, located at the Grebe Lodge within the existing Shore Road Allowance (Site No.2) to collect all sewage from this building via gravity, equipped with an access riser to grade, a visual/audible high level alarm system, one (1) sewage grinder sewage submersible pump rated at approximately 109 L/min at 3.7 m TDH to transfer sewage via a 50 mm diameter polyethylene (PE, series 100) forcemain (approximately 60 m long) to a proposed septic tank located at the Wingfield Cottage (Site No.1) as described below;

Proposed Septic Tank at Wingfield Cottage (Site No. 1)

one (1) proposed two-compartment precast concrete septic tank with a capacity of 9,100 L equipped with two (2) 600 mm diameter access risers to grade and an OBC approved effluent filter (Polylok PL122 or equivalent) installed on outlet pipe inside the septic tank, collecting sewage from the raw sewage pump station at Grebe Lodge (via forcemain), from the Wingfield Cottage (via gravity) and from composting toilet drain, and discharging septic tank effluent via gravity to two (2) proposed filter beds as described below;

Proposed Filter Bed at Wingfield Cottage (Site No. 1)

two (2) proposed filter beds to be installed in parallel side by side with separation of minimum 5 m, each filter bed consisting of five (5) runs of 75 mm diameter PVC perforated piping, each run 6 m long (total of 30 m per bed); all piping installed within a 300 mm thick stone layer having a total contact area under each bed of minimum 36 m² (2 @ 4.8 m x 7.6 m), placed over minimum of 750 mm deep filter medium, having the stone layer located not be less than 900 mm above the high ground water table, rock or soil with a percolation time more than 50 minutes. The filter medium and stone shall comply with the OBC requirements.

EXISTING WORKS

Composting Toilet at Wingfield Cottage (Site No. 1)

one (1) existing factory manufactured composting toilet installed in fully weatherproof enclosure located under the gable roof porch end of the Wingfield Cottage, having a drain for removal of excess liquid connected to a proposed septic tank as described above;

all in accordance with Supporting Documentation submitted to the Ministry as listed in the **Schedule A** in 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 Owen Sound/Barrie District Office;
4. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;
5. "Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;
6. "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;
7. "Owner" means Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources and Forestry and its successors and assignees;
8. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
9. "Rated Capacity" means design daily sanitary sewage flow for which the Works are approved to handle;
10. "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, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Approval.
3. Where there is a conflict between a provision of any submitted document 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 listed submitted documents, the document bearing the most recent date shall prevail.
4. Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
5. The requirements of this Approval are severable. If any requirement of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Approval shall not be affected thereby.

2. EXPIRY OF APPROVAL

1. The approval issued by this Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within 30 days of the change occurring:
 - a. change of Owner;
 - b. change of address of the Owner;
 - c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c.B17 shall be included in the notification to the District Manager;
 - d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager;
2. In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

4. CONSTRUCTION

1. The Owner shall ensure that the construction of the Works is supervised by a licensed installer, as defined in the *Ontario Building Code* or a Professional Engineer, as defined in the *Professional Engineers Act*.
2. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.
3. Upon construction 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 staff.
4. The Owner shall prepare a complete set of "as constructed" drawings within one (1) year of Substantial Completion of the Works. The drawings must be retained at the site and kept current and shall be made available for inspection by Ministry staff.
5. The Owner shall abandon all existing unused sewage systems as directed below:
 - a. any unused septic tank shall be emptied of its content and disposed off site by a licensed hauler and either be removed, crushed and backfilled, or be filled with granular material; the site to be graded and vegetative cover to be established.
 - b. the leaching bed can be left in ground with a vegetative cover maintained unless the area of the leaching bed is going to be used; If effluent has surfaced, those areas shall be covered with hydrated lime followed by topsoil and a vegetative cover should be established.
 - c. if the components of the leaching bed need to be removed, then sufficient time to be allowed after the system is taken out of service to ensure that entire absorption field is completely dry. All content of the distribution boxes shall be cleaned out by a licensed hauler; the distribution pipe network, distribution boxes, aggregate and sand shall be removed by a contractor and disposed at a licensed landfill site.

5. OPERATIONS, MAINTENANCE, AND RECORDING

1. The Owner shall ensure that at all times, the Works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained.
2. The Owner shall ensure that the septic tank is pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filter is cleaned out at minimum once a year (or more often if required).
3. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal bed, and that adequate steps are taken to ensure that the area of the underground works is protected from vehicle traffic.
4. The Owner shall ensure that in the event a break-out is observed from the subsurface disposal bed, the sewage discharge to the bed is discontinued and the incident immediately reported verbally to the District Manager, followed by a written report within seven (7) days. The Owner shall ensure that during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to a surface water body or to the environment, and safely collected and disposed of through a licensed waste hauler to an approved waste disposal site.
5. The Owner shall maintain a logbook to record the results of Operation and Maintenance activities specified in the above sub-clauses, and shall keep the logbook at the site and make it available for inspection by the Ministry staff. The logbook shall contain, but shall not be limited to, the following information:
 - a. a summary overview of performance and adequacy of the Works;
 - b. a description of any operating problems encountered and corrective actions taken at all sewage Works located at the property;

- c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of all Works located at the property;
 - d. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - e. a summary of all spill or abnormal discharge events;
 - f. a report on decommissioning of unused existing sewage works;
 - g. any other information the District Manager requires from time to time;
6. 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 and Maintenance activities required by this Approval.

6. REPORTING

1. One week prior to the start up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start up date.
2. In addition to the obligations under Part X of the *Environmental Protection Act*, the Owner shall, within ten (10) working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

7. CERTIFICATE OF REQUIREMENT

1. Pursuant to Section 103 of the *Ontario Water Resources Act*, no person having an interest in the Property, shall deal with the Property in any way without first giving a copy of this Approval to each person acquiring an interest in the Property as a result of the dealing.
2. The Owner shall:
 - a. within sixty (60) days of the date of the issuance of this Approval, submit to the Director for their review, two copies of a completed Certificate of Requirement and a registerable description of the Property; and
 - b. within ten (10) calendar days of receiving the Certificate of Requirement authorized by the Director, register the Certificate of Requirement in the appropriate Land Registry Office on title to the Property and submit to the Director the duplicate registered copy immediately following registration.
3. For the purposes of this condition, Property shall mean the property located at 753 Cabot Head Road,
Lot 48, Concession 16, East of The Bury Road, Municipality of Northern Bruce Peninsula (former Township of Lindsay), County of Bruce.

Schedule A

1. Application for Environmental Compliance Approval submitted by Keith Early of Ontario Parks - Ministry of Natural Resources and Forestry received on August 2, 2017 for the proposed sewage works with subsurface disposal to serve Cabot Head Research Station, including design report, final plans and specifications.

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

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
4. Condition 4 is included to ensure that the works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.
5. Condition 5 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected.
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 in order to require the Owner to give notice of this Approval to potential future owners of the property before the property is dealt with.

8.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. 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 Director appointed for the
purposes of Part II.1 of the
Environmental Protection Act
Ministry of the Environment and
Climate Change
135 St. Clair Avenue West, 1st
Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

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

DATED AT TORONTO this 1st day of September,
2017

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

BM/
c: District Manager, MOECC Owen Sound
Darryl M. Robins P. Eng., Darryl M. Robbins Consulting Inc.
Keith Early, Ontario Parks - Ministry of Natural Resources & Forestry
Doran Ritchie, Land Use Planning Coordinator, SON Environmental Office, Neyaashiinigiig