



TO: MAYOR J. LEHMAN AND MEMBERS OF COUNCIL

**FROM: J. THOMPSON, P. ENG., CMM III IP, PMP
DIRECTOR OF ENVIRONMENTAL SERVICES**

**NOTED: D. FRIARY, ACTING GENERAL MANAGER, INFRASTRUCTURE AND GROWTH
MANAGEMENT**

M. PROWSE, CHIEF ADMINISTRATIVE OFFICER

RE: 2017 ANNUAL MONITORING REPORTS - REGULATED MUNICIPAL FACILITIES

DATE: JULY 12, 2018

The purpose of this Memorandum is to provide members of Council with information related to the performance of municipal facilities which operate under a Certificate of Approval (C of A) or Environmental Compliance Approval (ECA) issued by the Ministry of the Environment and Climate Change (MOECC). The details of facility annual performance are provided to the MOECC in the form of Annual Reports prepared by the Environmental Operations Branch of the Environmental Services Department. Originals of these Reports have been submitted to the MOECC in accordance with established timelines and a copy of the Reports will be made available in the Councillor's Lounge.

The Reports listed below are currently available in the Councillor's Lounge:

- Oro Biosolids Storage Facility (*C of A Number A252707*) – March 29th, 2018;
- Landfill Stormwater Management Facility (*ECA Number 1681-AFGMVU*) – March 29th, 2018;
- Barrie Super Sports Park (*C of A Number 2906-5D9GQB*) – March 29th, 2018;
- Stormwater Management Works - Oil and Grit Separators (*C of A Number 5050-6TJHZ4*) – April 30th, 2017; and
- Landfill Site Operations (*ECA A250101*) – June 29th, 2018.

Oro Biosolids Storage Facility

The Oro Biosolids Storage Facility (BSF) is located on the 7th Line of Oro-Medonte immediately north of the Lake Simcoe Regional Airport (LSRA). The Facility provides storage for biosolids generated from the City of Barrie's Wastewater Treatment Facility (WwTF) when land application of the biosolids is not possible (i.e. winter months, wet periods, planted fields). The total storage capacity for the BSF is 61,500 m³.

The results of the 2017 Monitoring Program indicate that groundwater quality may be affected by operations on the Site. Consequently, the City of Barrie will continue to collect representative groundwater, surface water and lagoon samples as per MOECC requirements. The Lagoon Liner Inspection Program commenced in 2016 and includes the emptying, cleaning, inspecting and repairing of the liner of all three lagoons (as required) at the frequency of one lagoon annually. Inspection and repair of Lagoon 1 was completed in 2016. Lagoon 2 was inspected in the fall of 2017, with repairs completed in June 2018. Lagoon 3 is scheduled for inspection during the fall of 2018.

The Annual Report was submitted to the MOECC on March 30th, 2018 and a copy has been made available in the Councillor's Lounge.

Landfill Stormwater Management Facility

The Landfill Stormwater Management Facility is located centrally within the Landfill Site and receives surface water runoff from the following areas; Waste Segregation Pad, Compost Processing Pad, Household Hazardous Waste Depot, Commodities Storage, the administration parking lot, and south and west sections of the Landfill Site. The Stormwater Management Facility is designed to control and improve the quality of stormwater that is discharged offsite to the storm sewer system. It is constructed on sandy soils also allowing it to function as an infiltration pond. The MOECC requires the City of Barrie to sample, analyze and report on stormwater accumulations and releases.

The Environmental Compliance Approval 9817-993S4S governing this Facility was amended in March 2017 and replaced by Environmental Compliance Approval 1681-AFGMVU to include the construction of 6 additional stormwater management ponds at the Landfill Site to service the south and west sections of the Landfill Site.

In 2017 there were no releases from the Facility and compliance was maintained for the duration of the reporting period.

The Report was submitted to the MOECC on March 29th, 2018 and a copy has been made available in the Councillor's Lounge.

Barrie Super Sports Park

The Barrie Super Sports Park (Site) has an on-site sewage system for the treatment and disposal of wastewater generated at the Site. In 2017, the Site was operated from May 1st to October 31st. Each of the Site's two washrooms are serviced by individual septic tanks, pumping stations and leaching beds. The septic tanks were pumped out four times throughout the 2017 operating season by a licensed hauler and the wastewater was disposed of at the WwTF. The volume of effluent and the results of the effluent analyses are used to calculate the nutrient loading discharged to the leaching beds. All sampling, analyses and calculations were performed in accordance with conditions outlined in the historical C of A. The C of A outlines maximum allowable wastewater concentrations and flow rate criteria.

The analytical results demonstrate that effluent concentrations reported are consistently below the established limits in the C of A. Groundwater monitoring results do not indicate that the local groundwater quality has been impacted by the wastewater system. Based on the analytical results, the Annual Report recommends that all groundwater monitoring wells be decommissioned accordingly.

A new Environmental Compliance Approval (ECA) Number 0009-9YXHPX was issued to the City by the MOECC on July 25th, 2016. Environmental Services observed a lack of monitoring requirements within the new ECA and asked for clarification from MOECC. The City received direction from the District MOECC Office to abide by both approvals until further direction from MOECC is received. The Annual Report recommends approval to continue operations as outlined in the new ECA issued July 25th, 2016.

A letter formally requesting the approval of the recommendation was submitted to the MOECC following submission of the Annual Report. Groundwater and effluent monitoring will continue until such recommendation to discontinue monitoring has been approved by the MOECC.

The Annual Report was submitted to the MOECC on March 30th, 2018 and a copy has been made available in the Councillor's Lounge.



Landfill Site Operations

The MOECC requires the submission of an Annual Report by June 30th, 2018 pertaining to landfill site operations and this Report will be submitted to the MOECC and be made available in the Councillor's Lounge once complete. The 2017 Landfill Monitoring Program results indicate that the environmental control systems on site are serving their intended purpose to contain impacts from the landfill. In early 2017 the Environmental Compliance Approval (ECA) A250101 governing site operations was amended to include the extension of hours of operation from 7:00 a.m. to 7:00 p.m. as required, allowance for the use of Category B compost produced at the site as an alternative cover material, and construction of a new satellite Recycling Depot at the East Gate entrance including upgrades to the existing Household Hazardous Waste (HHW) Facility.

Please contact Ms. Sandra Brunet, Manager of Environmental Operations, at Ext. 6140 for further information.