

2019 Port Hope Annual Performance Report – Wastewater Collection System



January 1st – December 31st



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Re: 2019 Annual Performance Report - Port Hope Wastewater Collection System

Attached is the 2019 Performance Report for the **Port Hope Wastewater Collection System**, located across the Municipality of Port Hope, servicing the Port Hope Wastewater Treatment Facility. This report has been completed in accordance with the Environmental Compliance Approval #5819-AU3QVA, Section 2.6 (3), dated February 26, 2018 and issued to The Corporation of the Municipality of Port Hope.

The report covers the period from January 1, 2019 to December 31, 2019.

Sincerely,

Kris Montgomery
Wastewater Operations Manager
Municipality of Port Hope

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2019 Performance Report - Port Hope Wastewater Collection System

In accordance with the Environmental Compliance Approval #5819-AU3QVA, Section 2.6 (3) - REPORTING, dated February 26, 2018, the Municipality of Port Hope, as the Owner of the Municipal Sanitary Sewage Collection System, shall prepare and submit a performance report to the Water Supervisor on an annual basis, within ninety (90) days following the end of the period being reported upon.

Section 2.6 (3) - REPORTING requires the Performance Report to contain the following:

- (a) a summary and interpretation of all monitoring data, including an overview of the success and adequacy of the Works;
- (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;
- (d) a summary of the calibration and maintenance carried out on all monitoring equipment; and
- (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 Water Supervisor 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 1; and
- (i) a copy of all Notice of Assumptions submitted to the Water Supervisor as a result of Condition 2.8; and
- (j) any other information the Water Supervisor requires from time to time.

The following report was generated from the records maintained by the Municipality of Port Hope for the Port Hope Wastewater Collection System (WWC) for the calendar year 2019:

(a) Summary and Interpretation of All Monitoring Data

The sanitary sewage collection system serving the Port Hope Wastewater Facility consists of approximately 79 kilometers (km) of sanitary sewers and 3.59 kilometers (km) sanitary forcemains and three (3) sewage pumping stations (SPS); Mill Street SPS, AON SPS, Hope Street North SPS. The sanitary sewage collection system also includes all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances that are essential for the proper operation of the Works.

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Licensed operators observe and monitor the sewage pumping stations regularly, during station checks/inspections and while performing scheduled preventative maintenance activities. Operators exercise due diligence in ensuring the Works and the related equipment are properly operated and maintained and any observations are being recorded in the facility logbooks. All major equipment, including pumps, flow meters, gas detectors, etc., are inspected on a regular basis, as per manufacturers recommendations, by qualified contract service providers.

Monitoring and inspection of the sanitary sewage collection system includes annual programs consisting of; sanitary main flushing and camera work, manhole grouting/ repair/replacement and inflow and infiltration analysis during storm events. All programs help to sustain an effective Capital Works program that coordinates with the Municipalities Needs Study on all assets associated with the sanitary sewage collection system.

(b) Operating Problems and Corrective Actions

Table A - Summary of Operating Problem Encountered and Corrective Actions Taken

Date	Operating Problem	Corrective Action Taken
25-MAR-2019	Gasoline spill, at Port Hope Joint Operations Centre, into nearby sanitary manhole.	Operator responded to fuel spill; gathered spill kit, received noticed only approx. 15 Litres was spilled into collection system. NO evidence of fuel was found in the collection system.
29-MAR-2019	Contaminated sludge/material found in MN#219C, on Toronto Road, by Contractor during condition assessment review work.	Samples were collected and send to accredited laboratory for analysis. Lab results identified likelihood of oil present. Contractor removed material and disposed of it at a licensed facility.
18-JUL-2019	North Street at Seymour Street manhole structure #21 failure.	Replaced manhole structure #21.

(c) Maintenance Activities

The Municipality maintains an active maintenance management program, for general maintenance and repair, to ensure that the facilities are maintained in a fit state of repair. In addition to this program, major works were upgraded or replaced as follows;

1. Manhole structure maintenance to reduce inflow and infiltration – 1 full manhole structure replacement; 9 Moduloc repairs; 14 manholes grouted; 31 manholes epoxied.
2. Installation of approximately 7 sanitary cleanouts.
3. Repair of approximately 10 sanitary services/laterals.
4. Approximately 15.4 kilometers of sanitary sewermain flushed and 114.1 kilometers camera inspected during corrective and preventative maintenance activities.
5. Eight (8) sanitary main repairs.

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All maintenance was performed on behalf of the Owner, by licenced Operators or qualified contracted services providers who exercise due diligence in ensuring the Works and the related equipment are properly operated and maintained to achieve compliance with the Approval. Daily rounds of the pumping stations are conducted by the Operators and any observations are being recorded.

(d) Calibration and Maintenance on Monitoring Equipment

Calibration of the flow meters, lab equipment and analyzers were conducted as per regular annual maintenance. Cleaning of effluent monitoring equipment is performed on a regular routine basis. Accuracy of effluent monitoring equipment operation was confirmed by onsite lab effluent samples analysis and offsite third party accredited laboratory analysis.

Table B - Summary of Calibration and Maintenance of Monitoring Equipment

Analyzer	Location	Date Calibrated	Calibrated by Whom
Flow Meter	Mill St. PS	October 23, 2019	Franklin Empire, Mitch Manley
Gas Detector	Mill St. PS	October 23, 2019	Franklin Empire, Mitch Manley
Flow Meter	AON PS	October 23, 2019	Franklin Empire, Mitch Manley
Gas Detector	AON PS	October 23, 2019	Franklin Empire, Mitch Manley

(e) Complaints

The number of complaints received during the reporting period, January 1-December 31, 2019, regarding the Wastewater Collection System was six (6). If applicable, complaints are itemized below with a corresponding steps taken to address the complaints.

Table C - Summary of Complaints Received

Date of Complaint	Address	Complaint	Steps Taken to Address Complaint
06-FEB-2019	63 Strachan Street	Odour	Operators arrived onsite and camera inspected lateral from home owners side into inside clean out. Found blockage @ 11.04 m from inside clean out. Blockage was located and on home owner property. Instructed home owner they have the option to call a plumber of their choice to have the private property blockage cleared before the Municipality can further investigations.
23-APR-2019	74 Toronto Road	Odour	Operator arrived onsite and checked up and downstream manholes with gas detector. No gas present and sanitary main was flowing fine. Checked manhole on school property, with gas detector. No gas or smell present. Spoke to

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Date of Complaint	Address	Complaint	Steps Taken to Address Complaint
			custodian, who advised that gas company was on site yesterday and said odour observed was a sewer smell. Operator suggested they called a plumber to inspect their side, as Municipal side was ok. No smell of any odours were observed while onsite.
12-AUG-2019	27 Payne Crescent	Odour	Operators arrived onsite and checked basement with gas meter; no gas observed. Sanitary sewers in surrounding area were flushed recently. Homeowner was advised to replace water in floor drain P traps.
19-AUG-2019	24 Queen Street	Odour	Operators arrived onsite. Bathroom drain found blocked. Internal property owner issue.
09-OCT-2019	34 Cavan Street	Odour	Operator arrived onsite and checked upstream and downstream manholes; no issues observed. No cleanout on property and no access from inside house. Operator advised homeowner they should call a plumber.
11-NOV-2019	60 White Drive	Odour	Operator arrived onsite and checked upstream and downstream manholes; no issues observed.

(f) Environmental Incidents

There were two (2) environmental incidents such as by-passes, spills or abnormal discharges to be reported for 2019.

Table D - Summary of Environmental Incidents

Date	Approx. Duration (hours)	Type of Bypass/Overflow/Spill, Abnormal Discharge Event	Volume (m ³)	Max Samples Results During Event (mg/L unless otherwise stated)				
				CBOD ⁵	TSS	TP	E. coli (cfu/100 mL)	pH (no unit)
17-JUL-19	3	Overflow event at MH# 219, MH# 378A and MH# 379, Lake Street, due to heavy rain event.	86.4	122	575	1.33	2200000	8.08
09-DEC-19	7.5	Overflow/Spill event caused from a partially collapsed sanitary main and an illegal connection from a residents eaves trough drain to the sanitary sewer system, during a heavy rain event.	0.33	144	58	1.28	154000	7.77

(g) Notice of Modifications Submitted

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The number of Notice(s) of Modifications submitted to the Water Supervisor in 2019 as a result of Schedule C, Section 1, totals zero (0). If applicable, copies of the Notice(s) are attached, in Appendix A, with each Notice itemized below with a corresponding status report on the implementation of each modification.

Table E - Summary of Notice of Modifications Submitted

Notice Issuance Date	Description of Modification as part of the Limited Operational Flexibility	Status	Date Completed/Expected Completed

Table F - Summary of Environmental Compliance Approvals (ECAs) Received

The number of Environmental Compliance Approvals (ECAs) received in 2019, totals one (1).

ECA Number	ECA Issuance Date	Project Description	Status	Date Substantially Completed/Expected Completed
0676-BEMNVP	21-AUG-2019	Brown Street Reconstruction – Replacement of approx. 452 meters of 200mm sanitary sewer, 246 meters of 150mm sanitary service lateral c/w cleanout, and 12 – 1200mm MHs.	Completed	05-DEC-2019

(h) Notice of Modifications Completed

The number of modifications completed as a result of Schedule C, Section 1, totals zero (0). If applicable, completed modifications are itemized below with a corresponding status report on the implementation of each modification.

Table G - Summary of Notice of Modifications Completed

Notice Issuance Date	Description of Modification as part of the Limited Operational Flexibility	Status	Date Completed

(i) Notice of Assumptions Submitted

The number of Notice of Assumptions submitted to the Water Supervisor as a result of Condition 2.8, totals zero (0).

Table H - Summary of Notice of Assumptions Submitted

Notice Issuance Date	Description of Assumption	Previous Owner	Date Assumed

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(j) Other Information

No additional information to report.