Wastewater System

2023
Report Highlights
Presented by

Town of BWG
Wastewater Division

Bradford West Gwillimbury

ABOUT BWG'S **Wastewater System**

Originally constructed in 1962, the Town's Water Pollution Control Plant (WPCP) is located at 225 Dissette Street.

The facility has undergone several upgrades over the years to ensure the treated water (effluent) discharged into the West Holland River meets and/or exceeds the requirements of the Ministry of Environment, Conservation and Parks (MECP). Our wastewater treatment process consists of three main stages: Primary, Secondary, and Tertiary.

SYSTEM highlights

19.4k Daily rated capacity (in m^3).

9 Pumping stations throughout BWG.

2,050 Manholes throughout BWG.

36.93 Kilometers of forcemain.

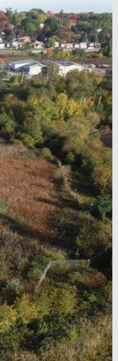
128.6 Kilometers of gravity sewer.

35,430 Population served.

27.2k Cubic metres of biosolids produced from system in 2023.

2 Number of spills, abnormal discharge, bypass and overflow.

0 Number of odour inquiries from wastewater operations.



4.62M

Cubic metres of total wastewater flow into the WPCP (influent flow) in 2023.

18.6k
Maximum daily influent reported (in cubic metres)

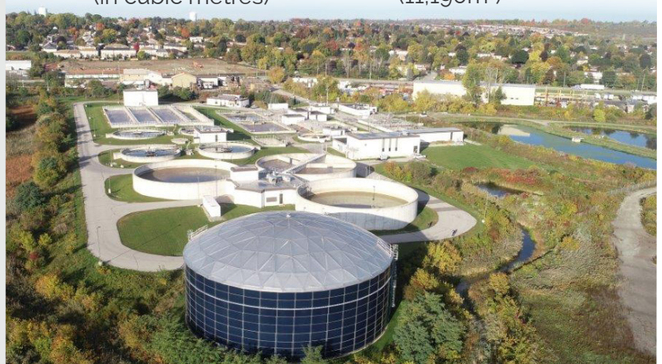
65%
Average daily influent flow of rated capacity (12,662m^3)

4.08M

Cubic metres of total wastewater discharged from the WPCP (effluent flow) in 2023.

18k
Maximum daily effluent reported (in cubic metres)

58%
Average daily effluent flow of rated capacity (11,190m^3)



SYSTEM PROCESS

After water moves through your drain systems, it flows to one of nine pumping stations throughout town. These pumping stations move wastewater to our WPCP.

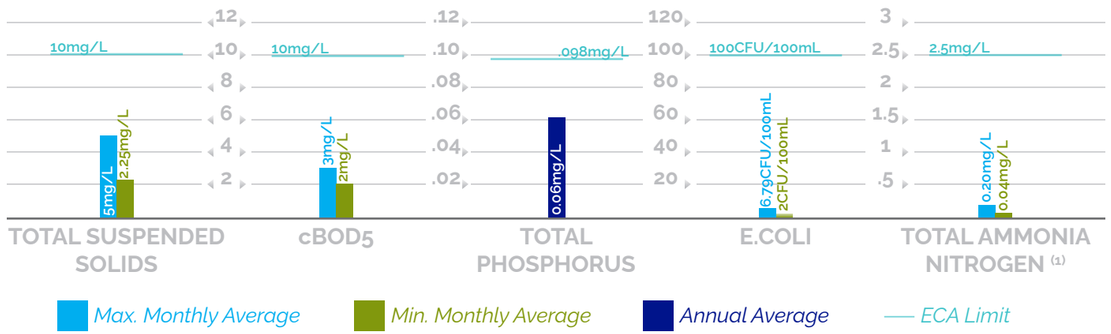
The wastewater treatment process begins with the **Primary** treatment stage, whereby large debris and grit is removed from the wastewater entering the WPCP.

The process continues with **Secondary** treatment, a biological process where wastewater is aerated to feed microorganisms to help breakdown organic matter.

During the **Tertiary** (and final) stage of treatment wastewater flows through sand filters and Ultraviolet (UV) lights to provide final disinfection and inactivation of pathogens and bacteria.

Once wastewater has met or surpassed all regulatory requirements, the treated wastewater (effluent) is deposited into the West Holland River.

Wastewater Quality Monitoring: Wastewater is monitored entering (influent) and leaving (effluent) the WPCP. The Environmental Compliance Approval (ECA) sets out the minimum required monitoring frequency and parameters. Some parameters are assigned limits. The effluent parameters that have corresponding limits have been graphed below.



***(1)** Total Ammonia Nitrogen has an objective and limit of 0.6 and 0.8mg/L and 2 and 2.5mg/L at different times of the year. More detailed information can be found within the 2023 Wastewater Annual Summary Report.*

Our WPCP has demonstrated compliance with the strict regulatory requirements set out by the MECP for 2023.

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Prepared by the Town of Bradford West Gwillimbury's Wastewater Division

Receiving Stream: West Holland River
Wastewater Treatment Plant: Class IV
Wastewater Collection System: Class III
Environmental Compliance Approval:
ECA No. 3705-BGRP97 and CLI ECA No. 116-W601

Wastewater Division Contact
3541 Line 11, Bradford
Monday-Friday, 8:30 am - 4:30 pm
Phone: 905 775 5369
Fax: 905 778 4343

After-hours Emergencies
Call Huronia Alarms at 1 800 461 9675

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