

Wastewater



December 2017

Wastewater



Improving the Kitchener Wastewater Treatment Plant

Thank you!

There has been a lot of construction work at the plant and the Region wants to thank you for your patience. We know that construction at the plant impacts your neighbourhood. The Region is working to try and minimize disturbances by limiting construction hours, reducing light pollution, and moderating operational noise.

We would like to bring you up-to-date on a number of key upgrades that have been completed. The work will reduce odours, further improve water quality in the Grand River and increase the plant's reliability.

Protecting water quality to the Grand River

Making big improvements to the health of the Grand River

The work at the plant will improve the quality of water being discharged (outfall) back into the Grand River, will reduce odours, improve fish and aquatic life, and provide the community with a reliable facility.

Work completed:

- Removal of sludge storage lagoons
- New energy centre (back-up power)
- New tertiary treatment system, which is the final step in treating water before it returns to the river
- New river outfall system that will diffuse the treated water to the Grand River



Overview of entire plant.



Overview of the digestion and energy centre.



The new headworks building in progress.



Progress of plant three and four secondary treatment system.



Region of Waterloo

Transportation and Environment Services, Design and Construction

Work in progress

- New headworks building, which is the first step in the treatment process where inorganics like sticks and grit are removed from the water so that it can be treated.
- Upgrades to the secondary treatment system which separates solids from the water and removes other organics.

Some upgrades still to come

- New cogeneration equipment to produce heat and electricity. Construction is expected to start during the summer of 2018, which will include a small amount of concrete work and excavation with minimal impact to the neighbourhood.
- We are protecting our assets through renewal and replacement of aging infrastructure by examining future requirements to ensure the plant continues to operate reliably.

We will continue to consult our neighbours to ensure we are responding to concerns.

Your neighbourhood

- We have been engaging regularly with residents to discuss their concerns.
- Limited construction hours on-site for noise-generating activities to run from 7 a.m. to 5 p.m. Monday to Friday, to ensure work doesn't continue into the evenings.
- Site-wide reviews have been done on the issues of noise and light to see what the impacts are and how they might be addressed.
- Elimination of biosolids storage lagoons have significantly reduced odours.

Learn more about the project and how to reach us

As the work continues, the Region will look at what work still needs to be completed and will continue to consult our neighbours to ensure we are providing updates and responding to comments received.

For more information, contact David Brook, Senior Project Manager, dbrook@regionofwaterloo.ca 519-575-4400 ext. 3561.



Grand River bank restoration with tertiary filter and disinfection facilities in the background.



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For details on Kitchener WWTP projects link to www.regionofwaterloo.ca/masterplansandprojects
Alternate formats of this document available upon request.