

STORMWATER MANAGEMENT

Appendix B

What is Stormwater?

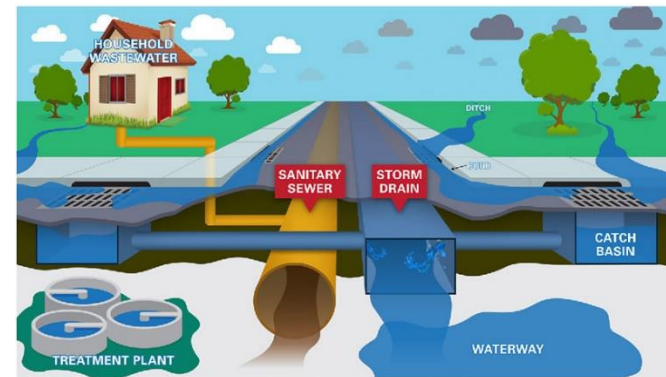
It is water from rain, snow melt, and other precipitation that runs off roofs, streets and other surfaces and drains into ditches, storm drains, local creeks and Lake Ontario. It is important to make sure runoff travels away from homes and buildings to protect private and public property from flooding during storm events.

How is Stormwater Managed and Flooding Prevented?

Rain and melted snow from your property is managed through 2 types of systems:

Roadway Drainage System - During smaller storms, rain on the road drains into curb and gutter catchbasins or ditches and into the underground pipe system or storm ponds. The town maintains this infrastructure to ensure it operates effectively and manages the everyday, frequent type storm to lower the risk of flooding.

Overland Flow System – During large, intense storms the road surface itself is also designed to collect and move stormwater to a safe outlet such as a creeks/riverines and ultimately to Lake Ontario. This system also includes diversion channels, pathways and park spaces to take the stormwater from the road toward a storm ponds.



The Town Manages Various Stormwater Infrastructure:



622,700 metres
of Storm pipes



30,200
Catchbasins



67 Storm Ponds



132 creek
reaches



93 shoreline
reaches

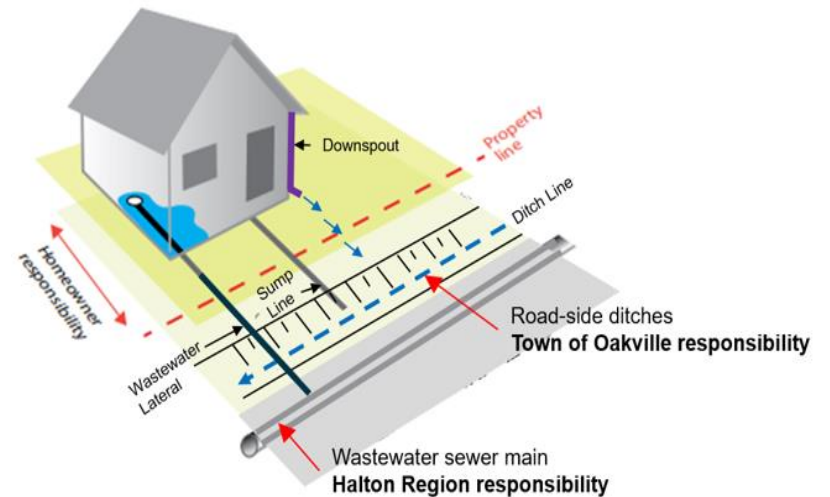


168 km of
ditches

Who is responsible for what?

Jurisdiction over the different types of stormwater infrastructure and natural assets is shared:

- **Homeowners** - own the pipe called the sewer lateral that connects from main sewer pipe at the property line to the home, and responsible for lot grading around the property
- **The Region** – manage sanitary sewer mains that carry sewage (wastewater) from the homes to treatment plants. Sanitary sewer mains may become submerged during overland flooding events, which can cause backups (surcharging) of the mainline system.
- **The Town** – maintains the various infrastructure that helps direct runoff water underground (storm sewer pipes) and above ground (roadways, catch basins, ditches, swales, road culverts and storm ponds) within the public right-of-way. The town also helps maintain creek and shoreline embankments.
- **Conservation Authorities** - regulate the creek floodplains to help protect communities from natural hazards such as flooding
- **International Joint Commission** - regulates the outflows of the Great Lakes with regard to upstream/downstream water levels



What is the town doing?

A lot of the stormwater infrastructure was built in the 1980s and was designed based on historic rainfall patterns. Oakville is a growing community and changes to our climate can bring intense rainfall and rapidly melting snow. To cope with these changes, we are developing a town-wide Rainwater Management (RWM) Strategy that will provide residents and Council information about the town's strategy to help protect and build resiliency and adapt to the impact of heavier rainfall events on our stormwater system, riverine, harbours and shoreline. During the development of the strategy, improvements to the town's natural assets and stormwater related infrastructure will continue to be implemented. Highlights included in the 10 Year Capital Budget are below. Details are available at Oakville.ca

\$30 million in Creek
Erosion work

\$20 Million in Shoreline
Rehab work

\$15 million in Storm
Sewer Renewal &
Improvements

\$10 million in Storm
water Pond Sediment
Removal