

Regional Wastewater Treatment Plant

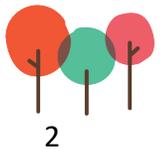
Aaron Dondale, Manager of Public Works
Commission Meeting, Village of New Minas
13 June 2022



MUNICIPALITY *of the*
COUNTY *of* KINGS

Introductions

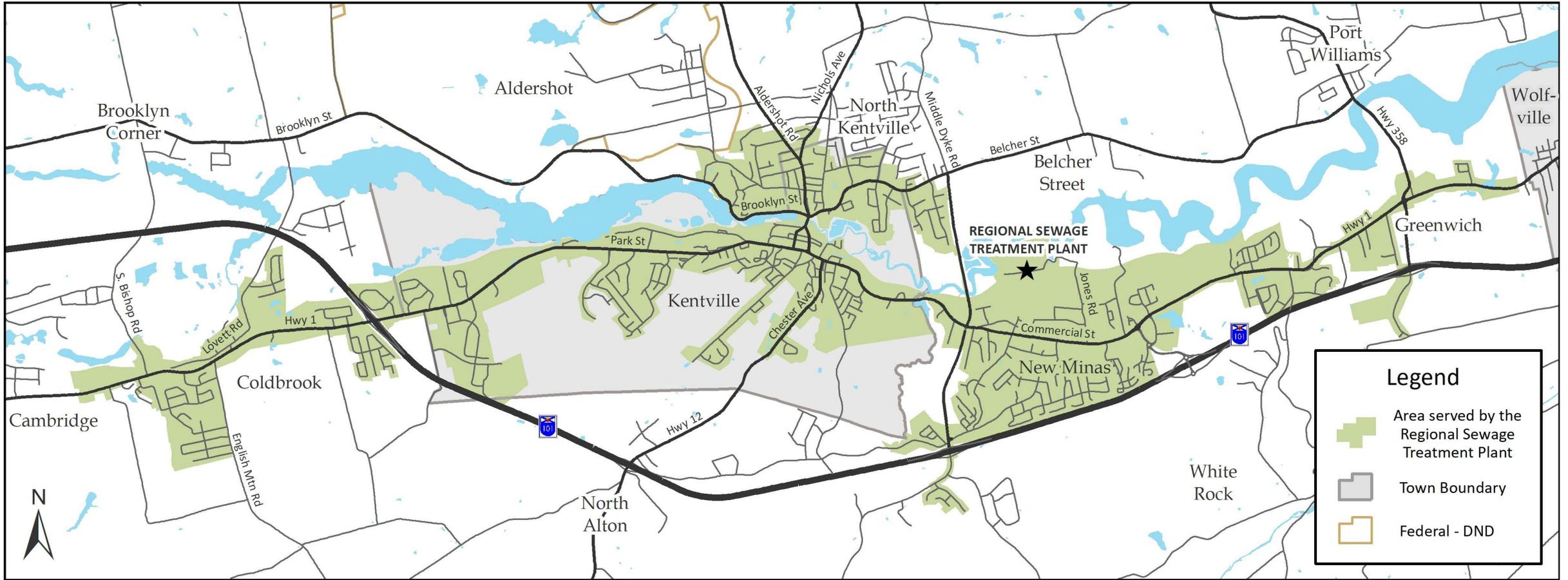
- Aaron Dondale, Manager of Public Works
- Scott Conrod, Chief Administrative Officer



Operated through the Regional Partnership

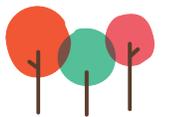
- Municipality of County of Kings
- Town of Kentville
- Village of New Minas
- PepsiCo

Wastewater Collection System



Wastewater Collection System

- Coldbrook
 - Town of Kentville
 - Village of New Minas
 - Greenwich
-
- 22 Municipal-owned pumping stations feed the plant, plus more in ToK and VNM



Wastewater Collection System (cont)

- Daily flow up to 5 million gallons per day
- Avg load to Regional Plant ~ 450 mg/L
 - Up to 14 lb per min of solid material coming to the plant



Odour

- Odour Components

- Hydrogen Sulphide
- Ammonia
- Algae
- Raw Sewer
- Fats, Oils, Grease

“Rotten Egg”

“Hair Salon / Perm”

“Fishy”

“Septic”

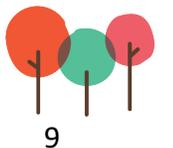
“Decay”

- Each odour component requires a different treatment, and some are inter-related



What are we doing about it?

- Cleaned all Municipal-owned pumping stations
- Installed pumps to dilute the first lagoon with water from the cleaner 5th lagoon
- Split the flow into the plant to the first two lagoons
- Upgraded the filtration system to filter problematic inorganic debris
- Engaged Subject Matter Expert last Tuesday



Expert Suggestions (immediate)

- Recirculate water from lagoon 5 back to lagoon 1 to dilute the incoming wastewater to the plant, and to reduce the effective load (done)
- Establish a plan to remove more sludge more frequently (under development)

Expert Suggestions (ASAP)

- Change the shape of lagoon 1
- Prevent the accumulation of sludge by optimizing fluid movement within the lagoons
- Continue with the aeration upgrade work planned for this summer (with some minor adjustments)

How can you Help?



Be aware of what you are putting down your drains and toilets. If it's not coming from your body, and it's not toilet paper, it shouldn't be entering the wastewater system.

How can you Help?



Grocery Bags



Disposable Wipes

- Wipes and hygiene products do not biodegrade, accumulate in the lagoon, and rot; odor.



Disposable Wipes



Discussion

<https://www.countyofkings.ca/regionalsewerupdates>