Regional Sewer

Regional Sewer Treatment Update

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Municipal Council
July 7, 2026

PLEASE NOTE: These slides were edited for clarity based on questions and feedback received following the July 7 presentation to Council. Substantive changes are marked in red throughout the slide deck.

MUNICIPALITY of the COUNTY of KINGS

This slide was added for clarity for those viewing the slideshow presentation after the Council presentation on July 7, 2026, to summarize what was discussed.

Content Summary

- Engineering consultant currently working on a Predesign Report.
- The Predesign Report is anticipated to be completed by this summer with recommendations being made public once received by the Regional Partners.
- The advice being sought involves two options:
  1. Moving forward with technological upgrades to existing treatment system; or
  2. Building a new plant at or near existing location

Presentation Summary

- Who, What, Where, When & Why?
- Millon Dollar Questions…

Why does it smell?
When will odours go away?
What is being done about it?

Who?

Regional Partners…

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

What?

- **Aerobic Digestion** (current plant, designed 50 years ago)
  - Residential, Light Commercial/Industrial

Other technologies being studied include:

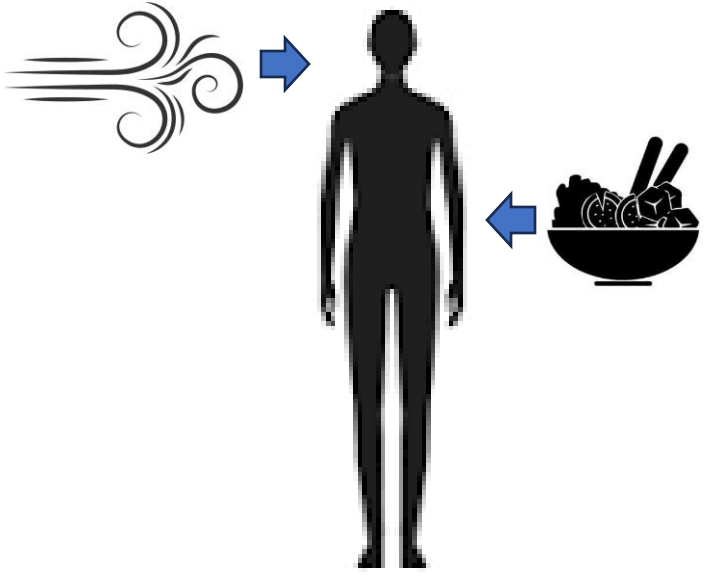
- Anaerobic Digestion
  - Typically Single-Industry Specific
- Other Mechanical Systems…
  - Return Activated Sludge (Greenwood)
  - Sequence Batch Reactor (Avonport/HRM)
  - Both Need Continuous Sludge Management/Disposal

Regional Sewer Treatment Plant Aerial Photo, 2025

Location

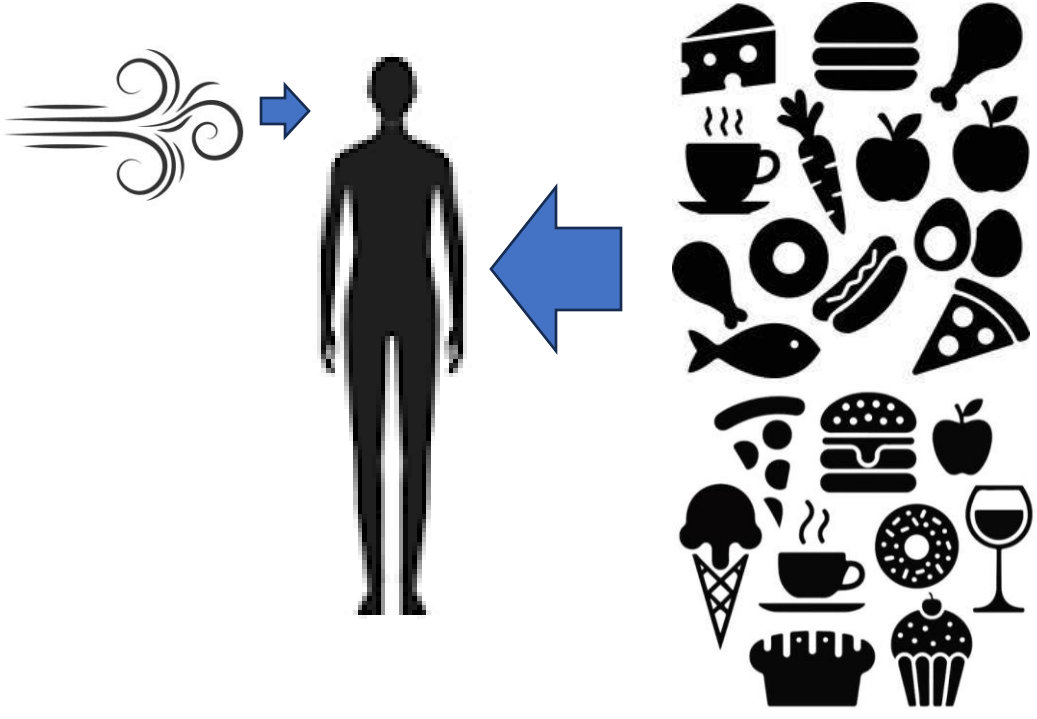
- Largest Treatment Plant East of Quebec
- Steps from Harvest Moon Trail
- Next to largest Commercial District in Valley
- Close to residential neighbourhoods
- Improved or new plant would be located at existing or close to existing location (based on existing collection and transmission infrastructure and proximity to discharge location)

Why?



Biological – i.e. Acts Like a Human Body, needs air and food

Why?



Biological – i.e. Acts Like a Human Body, Too Much Food and/or Too Quickly

Why?

- Excess Load Strength
- Varying Loads and Influent Stream
  - Residential, Food Waste, Cleaners, Solvents, High/Low pH, H_2S
- Existing 50-year-old System is Working Well for its Design
- Current System not Designed for Influent it Receives
- Need for New Plant or Upgrade in Technology

When?

- Odours may persist until new major upgrades are in place
- Have taken steps to increase air/oxygen, improve screening
- Will continue to maximize airflow to current system
- Will continue to perform maintenance to max performance
- Steps are being taken for odours to be less prevalent or less frequent, until a new plant or system upgrades are in place

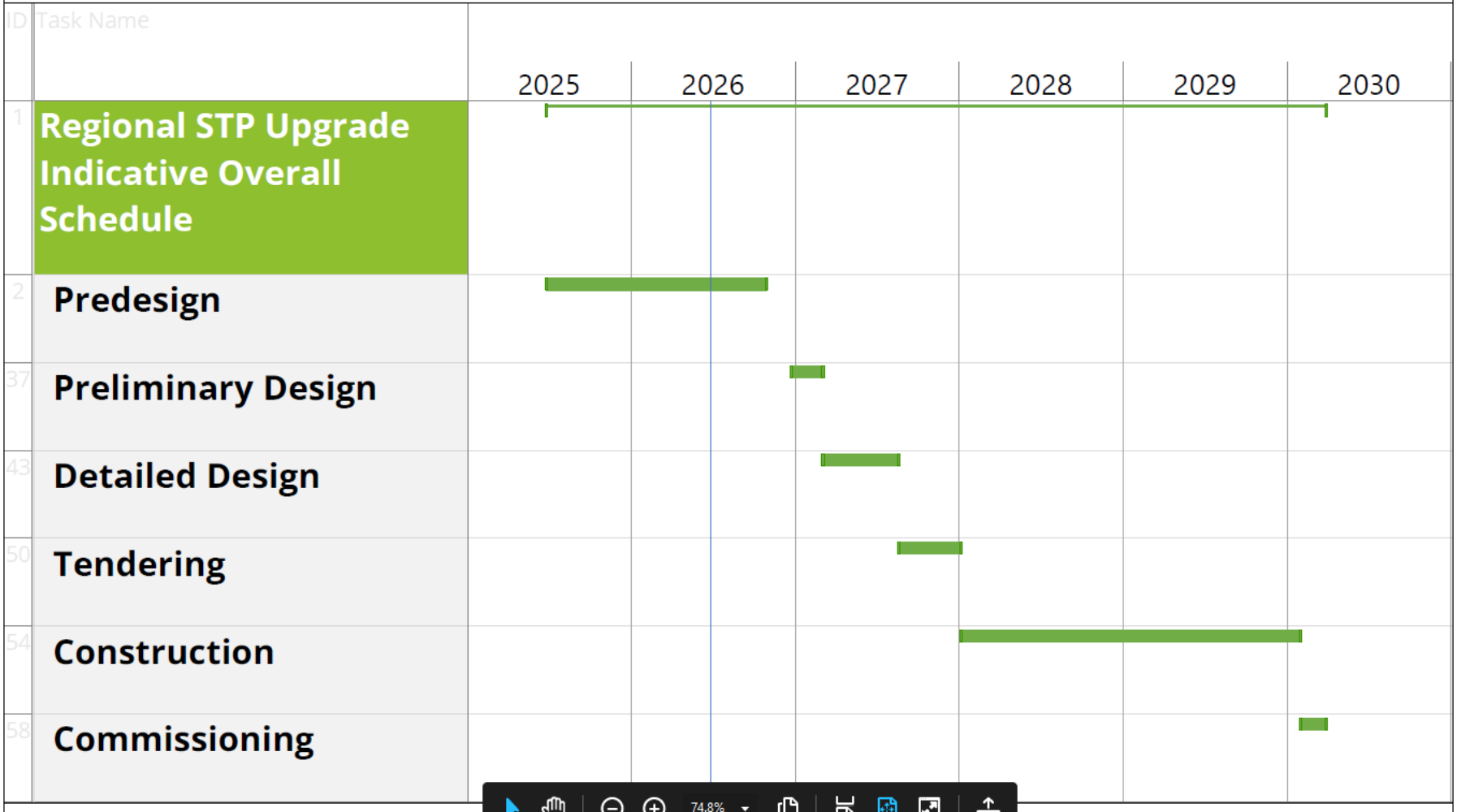
When?

- Pre-Design - this Summer (has been ongoing since Feb 2025)
- Preliminary Design - est. early 2027
  - Provide options to how to best treat
  - Where to best treat (at existing or close to existing location)
  - High-level cost estimates for recommended options
- Final Design – est. late 2027
- Tender & Construction – est. late 2027 or early 2028
- + Regulatory Approval

Project Schedule

Municipality of the County of Kings

Regional STP Upgrade Pre-design



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Questions from Council