Welcome!

Please sign in, and feel free to browse the information panels.

Your comments are important to us.

Please complete one of the comment sheets and place it in the box provided, or send it to the address on the form before:

**Wednesday March 15, 2017.**

Staff from the Region and their consultants are available to answer any questions that you have.

**Region of Waterloo**
Nicole Sapeta, P.Eng.

**CIMA**
Erin Longworth, P.Eng.
Troy Briggs, P.Eng.
Goals of this Public Consultation Centre

- Provide background information on wastewater treatment in the Region of Waterloo
- Introduce the Wastewater Treatment Master Plan Update and why it is being completed
- Provide an opportunity for input on the approach for developing solutions and how they will be evaluated
Why Update the Wastewater Treatment Master Plan?

Plan for Growth

Optimize the Treatment Plants

Meet Future Treatment Needs

New Opportunities for Sustainability
Municipalities in Ontario completing a Master Plan must follow the Class EA process.
Wastewater in Waterloo Region

- 3 Cities
- 4 Townships
- Population serviced 537,000 (in 2016)
- 13 treatment plants
- 6 pump stations
- 2 Regional collection systems
- 5 receiving streams
- Targets for higher quality treated wastewater
- 10 Year Capital Budget (2017-2026) of $600 million
- Annual operating and maintenance costs of $90 million

Did You Know?
The Local Municipalities collect wastewater and the Region of Waterloo is responsible for treatment
What Has Changed Since the Last Master Plan?

- Forecasted Flow Rates
- Level of Treatment Needs
- New Opportunities for Sustainability and Innovation
Future Wastewater Flows in the Tri-Cities

![Graph showing future wastewater flows in the Tri-Cities]

- **Kitchener WWTP**: 120,000 m³/d (2051 Projected Flow)
- **Waterloo WWTP**: 50,000 m³/d (Existing Rated Capacity)
- **Galt WWTP**: 50,000 m³/d (Existing Rated Capacity)
- **Preston WWTP**: 10,000 m³/d (2051 Projected Flow)
- **Hespeler WWTP**: 5,000 m³/d (2051 Projected Flow)
Future Wastewater Flows in Rural Communities

![Graph showing wastewater flows in rural communities.]

- **Elmira WWTP**: Existing Rated Capacity: 9,000 m³/d; 2051 Projected Flow: 10,000 m³/d
- **New Hamburg WWTP**: Existing Rated Capacity: 7,000 m³/d; 2051 Projected Flow: 7,500 m³/d
- **Ayr WWTP**: Existing Rated Capacity: 3,000 m³/d; 2051 Projected Flow: 3,500 m³/d
- **Wellesley WWTP**: Existing Rated Capacity: 1,000 m³/d; 2051 Projected Flow: 1,200 m³/d
- **St Jacobs WWTP**: Existing Rated Capacity: 1,000 m³/d; 2051 Projected Flow: 1,200 m³/d

Legend:
- Green: Existing Rated Capacity
- Purple: 2051 Projected Flow
Future Wastewater Treatment Needs

Future wastewater treatment needs have been reviewed based on flow projections up to 2051.

☑️ There is enough capacity available up until 2051 for the Kitchener, Galt, and Preston Wastewater Treatment Plants (WWTP)

☑️ Solutions will be needed to meet treatment needs for the:
  - Short-term (before 2026): Waterloo and St Jacobs WWTPs
  - Medium-term (2026 to 2036): Wellesley and Elmira WWTPs
  - Long-term (after 2036): Hespeler, Ayr and New Hamburg WWTPs
The Approach for this Master Plan Update

We will build on the work already completed in the 2007 Wastewater Treatment Master Plan by taking the following steps:

1. **REVIEW**
   - Review recommendations from the 2007 Wastewater Treatment Master Plan

2. **RE-EVALUATE**
   - Re-evaluate recommendations for projects not yet implemented

3. **DOCUMENT**
   - Document new needs and opportunities

4. **UPDATE**
   - Update recommendations, schedule, and budgets
Important Considerations for the Master Plan Update

- Optimization
- Energy Efficiency
- Greenhouse Gas Reductions
- Innovation
- Climate Change
- Financial Sustainability
Next Steps: Developing Potential Solutions

Wastewater treatment needs and opportunities

List of potential solutions

Solution screening

Shortlist

Wastewater Treatment Strategy
Next Steps: Evaluation

- Identify advantages and disadvantages
- Assign a score
- Determine best overall options

- Legal / Jurisdictional Environment
- Natural Environment
- Economic Environment
- Technical Environment
- Social Environment

Region Wastewater Treatment Master Plan Update
Next Steps: Class Environmental Assessment Process

- **Public Input** (Public Consultation Centre 2)
  - Evaluate options
  - Update preferred strategy
  - Complete Master Plan Update Report

- **Public Input** (Master Plan Update Report Review)
  - Request Council approval
  - 30-day public review period

**Timeline:**
- Spring 2017: Evaluate options
- Summer 2017: Update preferred strategy, Complete Master Plan Update Report
- Fall 2017: Request Council approval, 30-day public review period, Finalize the Master Plan
Thank you!

Thank you for your interest in the Wastewater Treatment Master Plan Update.

More information on the Wastewater Treatment Master Plan Update is available on the Region's website under the 'Master Plans and Projects' page:

www.regionofwaterloo.ca/wastewater

For further information, please contact:

Nicole Sapeta, P.Eng.
Project Engineer
Water Services, Region of Waterloo
NSapeta@regionofwaterloo.ca
519-575-4400 ext. 3682