

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF OCTOBER 20, 2021

Item 1, Report No.46, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on October 20, 2021.

1. YORK REGION WATER AND WASTEWATER MASTER PLAN UPDATE

The Committee of the Whole recommends:

1. That the recommendations contained in the following report of the Deputy City Manager, Infrastructure Development, dated October 13, 2021, be approved; and
2. That the presentation by Wendy Kemp and Tracey Carrigan, Regional Municipality of York, Yonge Street, Newmarket, as set out in Attachment 1, entitled “*2021 Water and Wastewater Master Plan*”, dated October 13, 2021, be received.

Recommendations

1. That York Region’s Water and Wastewater Master Plan Update presentation be received for information purposes.
2. That staff continue to engage with the Region of York to coordinate water and wastewater infrastructure needs with the City’s ongoing Integrated Urban Water Master Plan; and
3. That a copy of this report be forwarded to York Region.

Committee of the Whole (2) Report

DATE: Wednesday, October 13, 2021

WARD(S): ALL

TITLE: YORK REGION WATER AND WASTEWATER MASTER PLAN UPDATE

FROM:

Vince Musacchio, Acting Deputy City Manager, Infrastructure Development

ACTION: DECISION

Purpose

York Region will provide a presentation on its Water and Wastewater Master Plan Update including draft water and wastewater infrastructure and associated costs required to support growth to 2051 as part of the ongoing Municipal Comprehensive Review.

Report Highlights

- The Region's Water and Wastewater Master Plan is a long-term servicing plan that identifies infrastructure and programs required to support projected growth to 2051 as envisioned in the Regional Official Plan, and in coordination with the ongoing Municipal Comprehensive Review (MCR).
- The Master Plan Update commenced in Q3 2019 and is expected to be completed in early 2022.
- Servicing a population of over 2 million people will require \$4.3 billion in water and wastewater infrastructure and supporting programs.

Recommendations

1. That York Region's Water and Wastewater Master Plan Update presentation be received for information purposes.
2. That staff continue to engage with the Region of York to coordinate water and wastewater infrastructure needs with the City's ongoing Integrated Urban Water Master Plan; and

3. That a copy of this report be forwarded to York Region.

Background

York Region's Water and Wastewater Master Plan Update outlines critical infrastructure to support growth to 2051

York Region has completed regular updates to its Water and Wastewater Master Plan for over two decades to ensure long-term strategies reflect evolving needs. The last update was completed and endorsed by Regional Council in 2016.

The current Master Plan Update is being completed in coordination with the Municipal Comprehensive Review and the Region's Transportation Master Plan using the Council-endorsed principle of aligning growth with infrastructure. The Master Plan Update is based on the March 2021 MCR *Proposed 2051 Forecast and Land Needs Assessment Report*.

The Region is expecting to complete this Master Plan Update and obtain Regional Council endorsement in Q1 2022. The Region will circulate a draft version of the Master Plan Report to all local municipalities later this year. The City will have an opportunity to provide formal comments before the Notice of Completion is issued.

The Master Plan Update strives to develop a comprehensive, cost-efficient, and resilient infrastructure plan and long-term servicing strategy for water and wastewater services

In alignment with the Regions' 2019 - 2023 Strategic Plan and 2021 Fiscal Strategy, the goal of the Region's Water and Wastewater Master Plan is to develop a long-term servicing strategy that is environmentally sustainable and provides cost-effective and reliable services through integration, innovation, and infra-stretching.

Previous Reports/Authority

There are no previous reports, websites and/or direction on this topic.

Analysis and Options

York Region's Master Plan Update confirms that the 2016 servicing strategies remain valid

This Master Plan Update is following the Municipal Class Environmental Assessment framework. Detailed analysis confirmed the high-level servicing strategies from the 2016 Master Plan continue to be valid to meet the needs of York Region's growing communities.

Drinking water will continue to be supplied from Toronto and Peel, with minor York-Peel watermain improvement works proposed as demands and flows increase. Major works, such as the Northeast Vaughan Water Servicing and the West Vaughan Water Servicing will continue as planned to connect the City's urban expansion areas.

Wastewater flows will continue to be serviced through the York-Durham Sewage System (YDSS) and Peel Diversion System. The City's urban expansion areas will be connected via the proposed Northeast Vaughan and West Vaughan Wastewater Servicing projects.

The overall servicing strategy will service planned growth, improve system resiliency, reduce water age, lower energy consumption, and improve water balance.

York Region's Master Plan Report will be presented to Regional Council for endorsement in 2022

This Master Plan Update is scheduled for completion in Q1 2022. Key activities in the next few months include public and stakeholder consultation, presentations to local municipal Councils, Regional Council endorsement and report submission to the Ministry of Environment, Conservation and Parks.

Financial Impact

The proposed water and wastewater infrastructure identified in this Master Plan Update will be funded by York Region.

Broader Regional Impacts/Considerations

City staff will continue to closely coordinate with the Region to ensure efficiency and compatibility with the City's on-going Integrated Urban Water Master Plan.

Conclusion

The Region's Water and Wastewater Master Plan Update supports the Region's Municipal Comprehensive Review and will provide input to their planned Development Charge Bylaw Update in 2022. The Region is expecting to complete this Master Plan Update and obtain Regional council endorsement in Q1 2022. The Region will circulate a draft version of the Master Plan Report to all local municipalities later this year. The City will have an opportunity to provide formal comments before the Notice of Completion is issued.

For more information, please contact:

Selma Hubjer, Acting Director, Infrastructure Planning and Corporate Asset Management, Ext. 8674


Attachments

1. Presentation Slides, York Region 2021 Water and Wastewater Master Plan Update

Prepared by

Diego Velasquez, Project Manager, Infrastructure Planning and Engineering, Ext. 8071
Michael Frieri, Acting Manager of Infrastructure Planning and Engineering, Ext. 8729

Approved by



Vince Musacchio
Deputy City Manager, Infrastructure
Development

Reviewed by



Nick Spensieri, City Manager

2021 WATER AND WASTEWATER MASTER PLAN

Presented to
City of Vaughan

Presented by
**Wendy Kemp and
Tracey Carrigan**

October 13, 2021

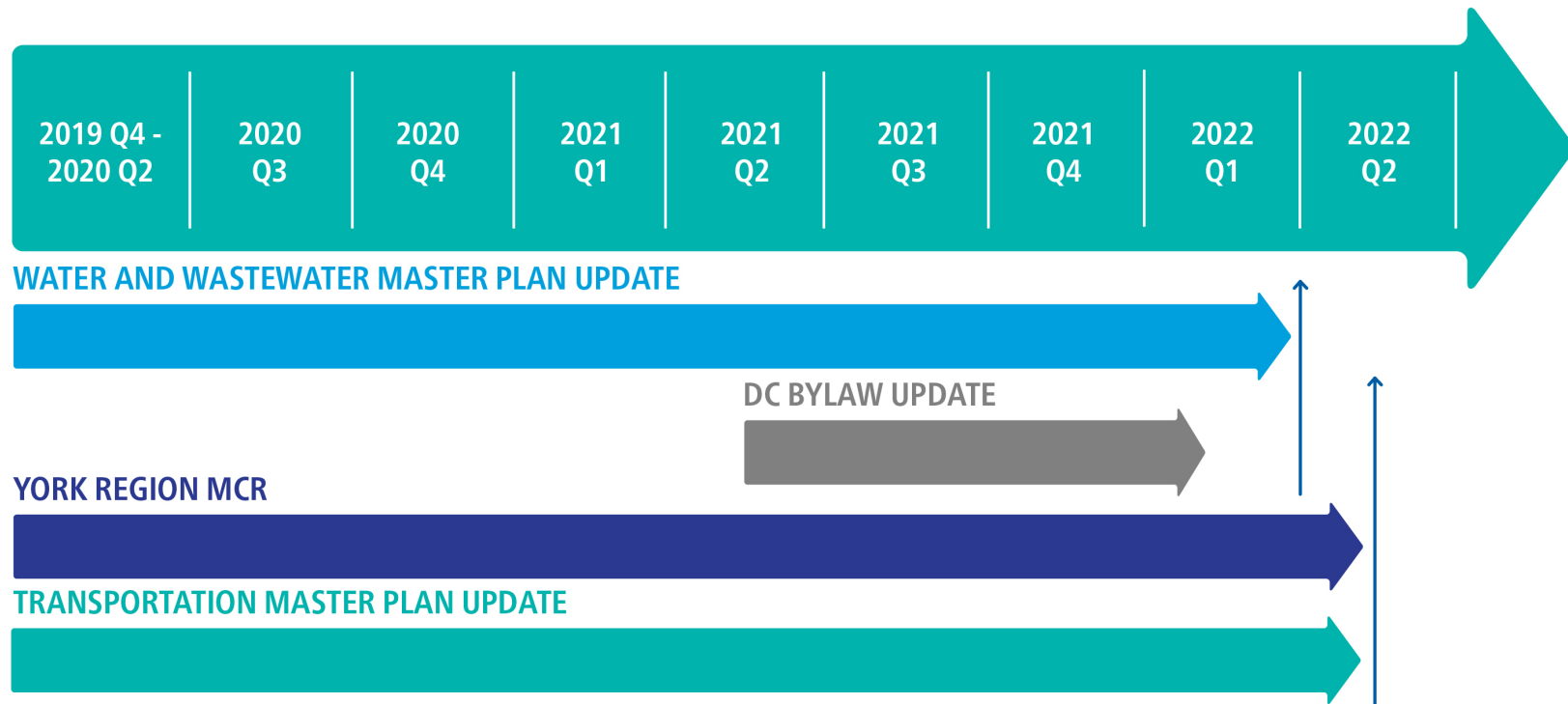


Agenda

1. Regional Context
2. Building on the 2016 Master Plan
3. Draft Infrastructure Plan
 1. Key Highlights of the New Draft Recommended Plan
 2. Implementing and Monitoring the Plan
4. Consultation and Engagement
5. Finalizing the Plan

Purpose is to present the recommended growth infrastructure program updated through the 2021 Water and Wastewater Master Plan

Integrated Growth Management



Timelines subject to change

Master Plan updates aligns with ROP and DC Bylaw Updates

Master Plans Are Updated Regularly to Adapt to Changing Circumstances



- This 2021 Master Plan Update follows a tradition of long-term, sustainable service planning at York Region
- This update is a recalibration of prior plans
- Decisions continued to be guided by One Water principles introduced in 2016 to: innovate, integrate and infirstretch

New Plan Builds On 2016 Master Plan

- Extended forecast from 2041 to 2051 growth horizon
- Used approved draft Land Needs Assessment (March 2021)
- Considers UYSS Water Reclamation Centre as key component of long-term servicing

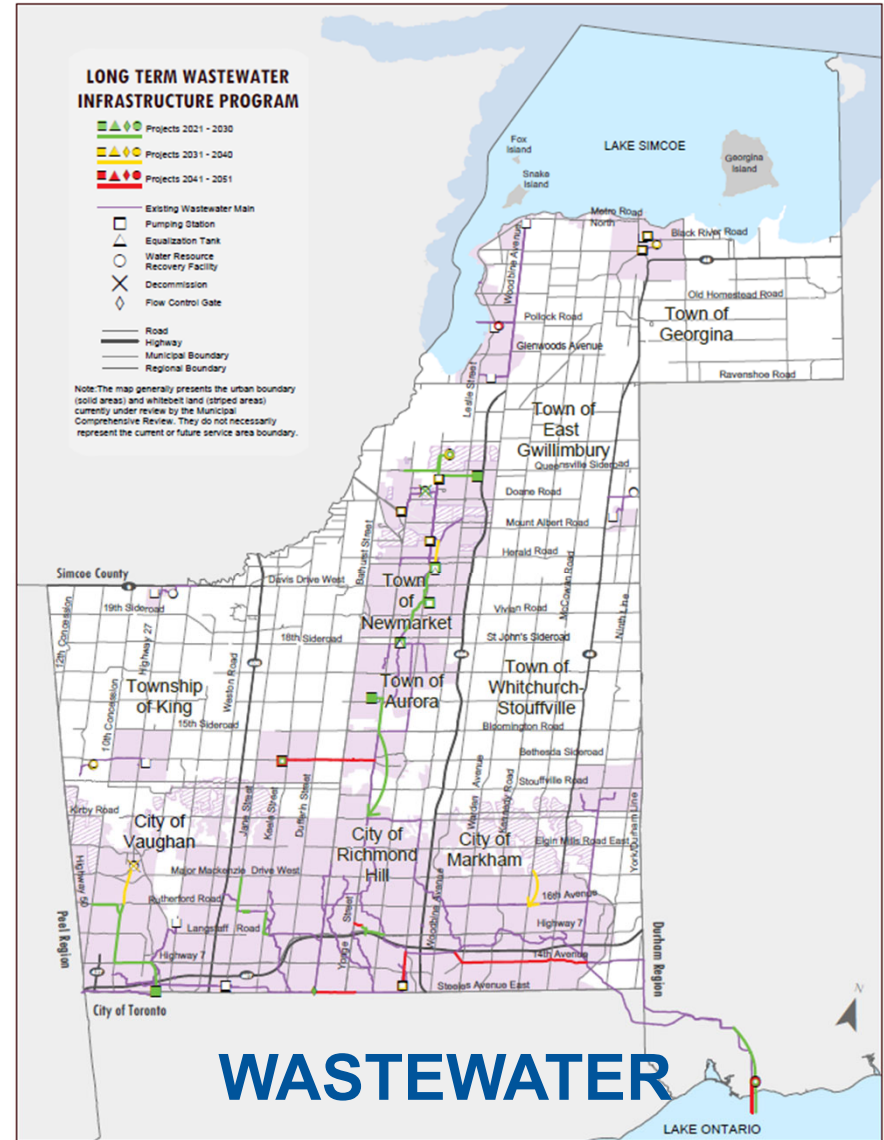
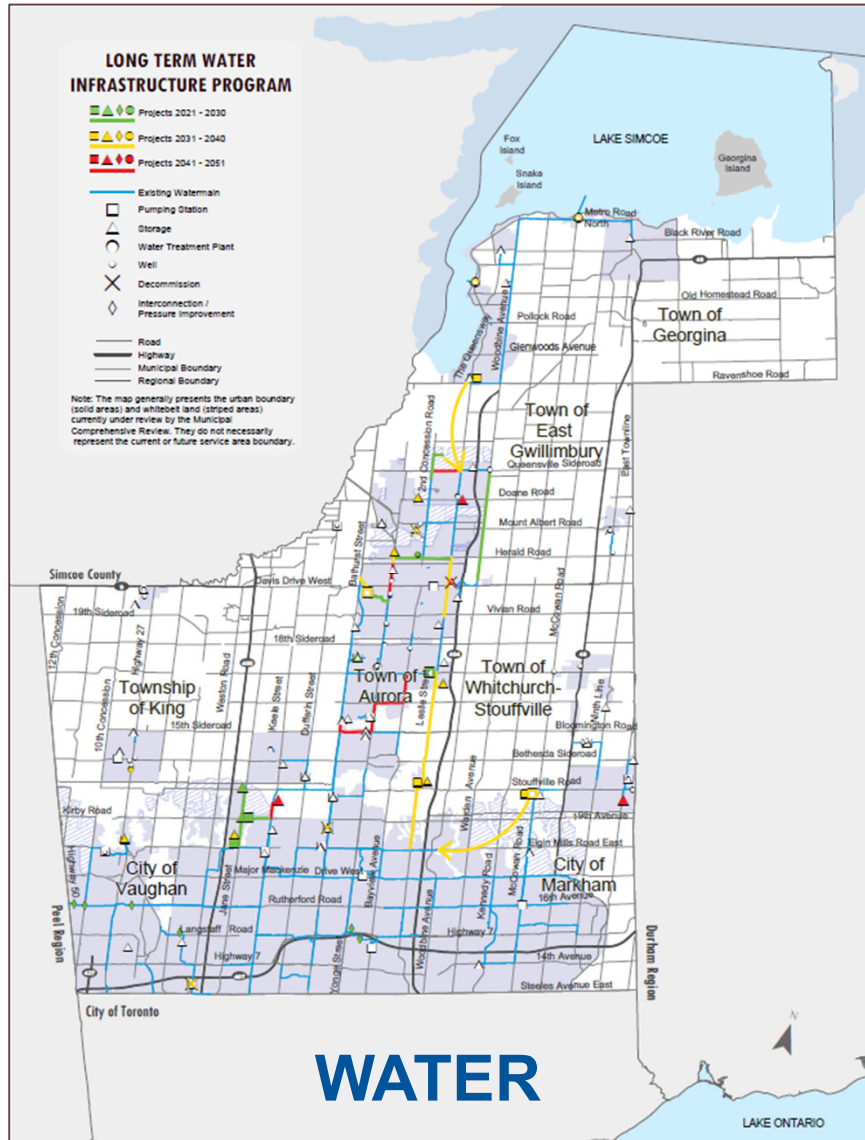
YORK REGION'S **POPULATION** is EXPECTED to GROW from



YORK REGION'S **EMPLOYMENT** is EXPECTED to GROW from



Servicing Strategies Align With 2016 Master Plan

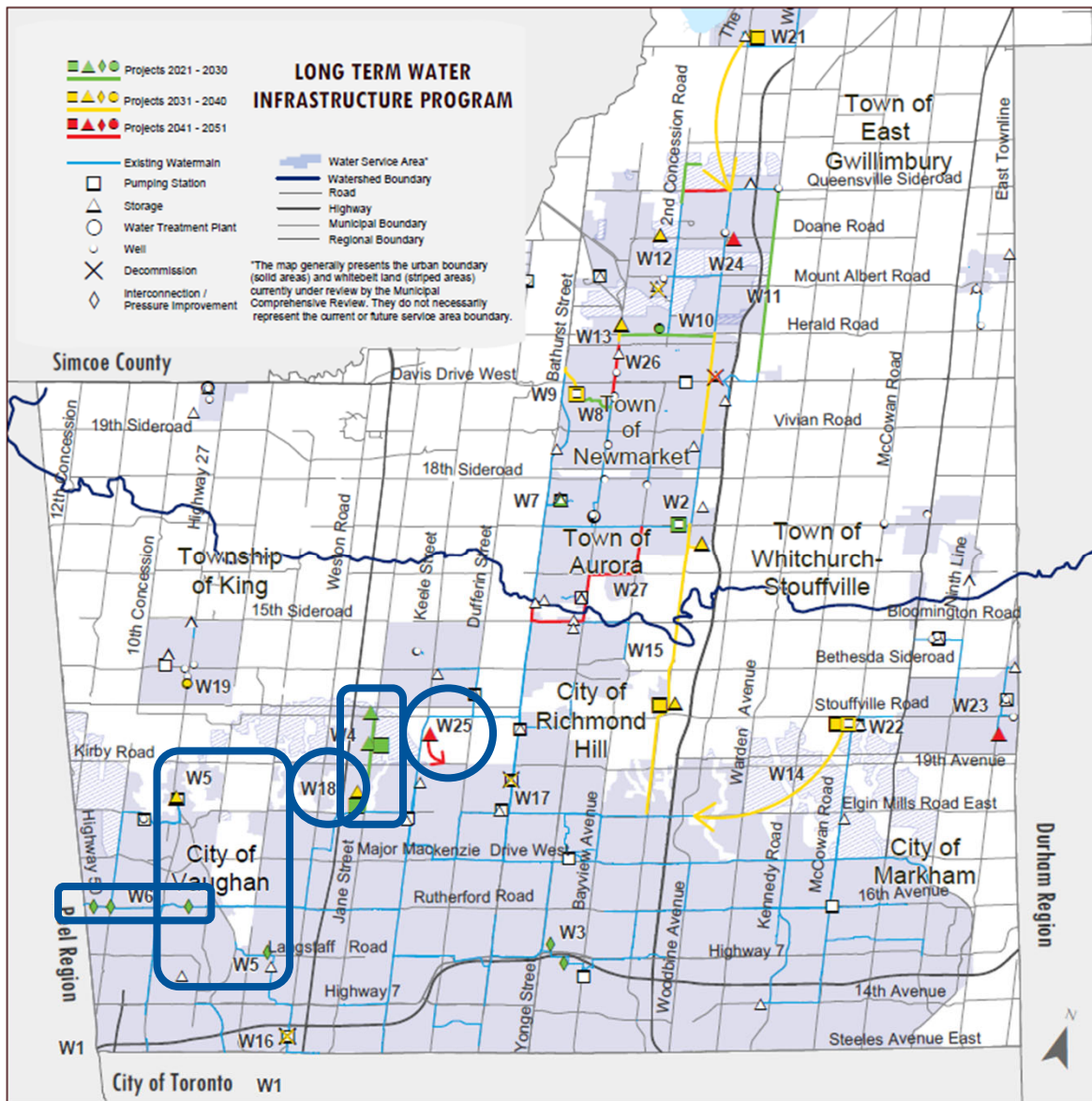


Highlights of the Infrastructure Program

To meet 2051 system demands:

- Most projects from the 2016 Master Plan have been carried forward, with some adjustments to sizing and timing
- Additional \$1.4 Billion in new water/wastewater infrastructure compared to 2016 Master Plan
- The updated water and wastewater infrastructure program totals **\$4.3 billion** over a 30-year horizon

Key Water Projects - Vaughan



Long-term, drinking water will continue to be supplied from Toronto and Peel, with minor **York-Peel Feedermain** works as flows increase.

Major works continue as planned to connect urban expansion areas to servicing:

- **Northeast Vaughan Water Servicing**
- **West Vaughan Water Servicing**

Further upgrades identified to service continued growth later in planning horizon:

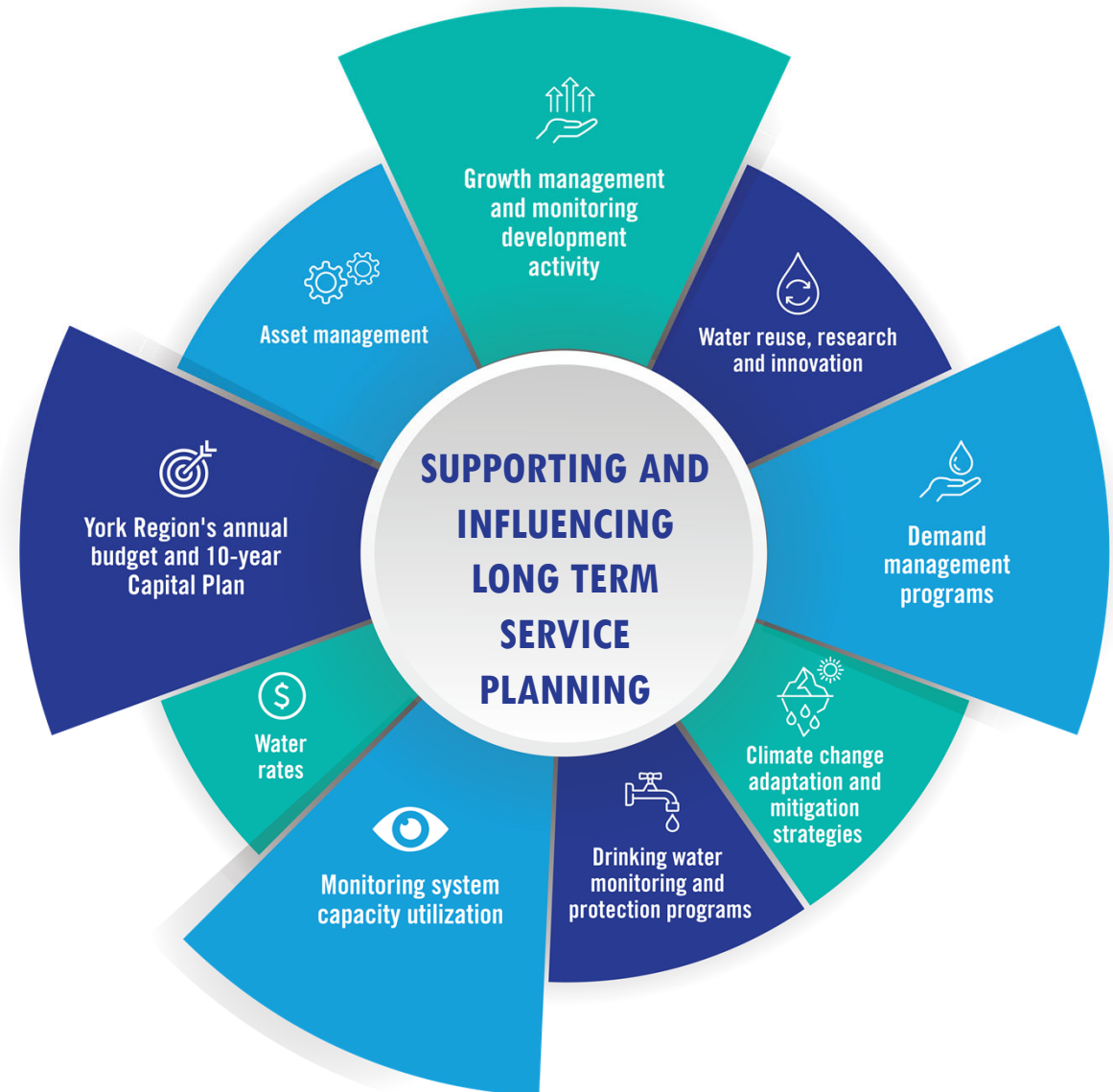
- **Vaughan Storage Expansion in PD6**
- **Upgrades in PD9**

Implementing and Monitoring the Master Plan

Infrastructure projects implemented through annual budget and **Capital Plan**

Capacity Monitoring coordinates servicing with near-term growth

Demand management programs continue to play a key role in long term service planning



Demand Management Programs

Demand management programs updated in 2021

Long Term Water Conservation Strategy Update:

- Enhanced focus on reducing non-revenue water
- Continue to raise awareness on water conservation, reducing outdoor water use and encourage water efficiency in new residential developments

Inflow and Infiltration Reduction Strategy Update:

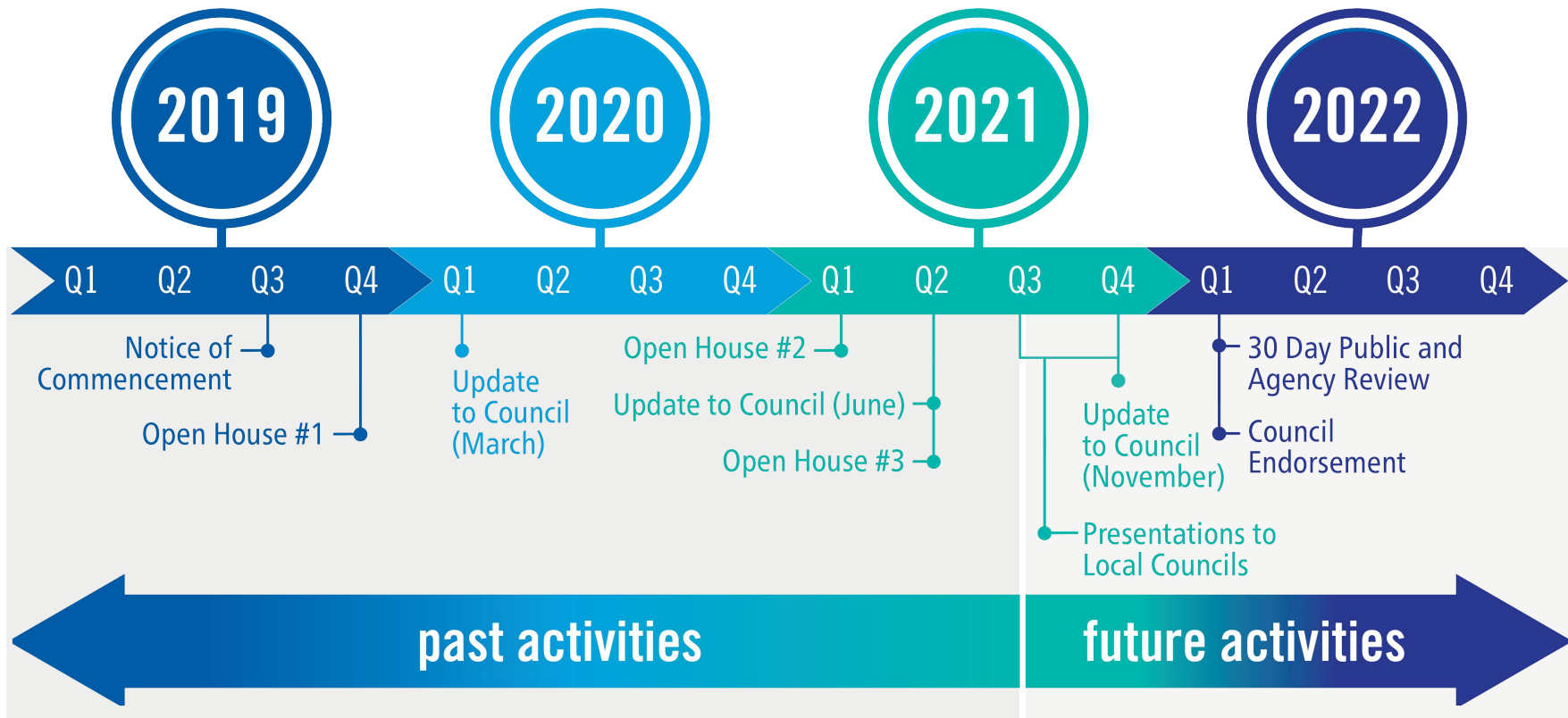
- Establishes targets specific to each Local Municipality in York Region, tailored to reflect conditions in each community
- Continued digital integration in data collection and analysis to drive actions towards long term reduction targets

Consultation and Engagement



- Engagement with local municipal staff, Indigenous Communities and development industry throughout the project
- Three public Open Houses completed
- Feedback collected and considered as input to the Master Plan and shared with other business areas

Next Steps to Finalize the Plan



Thank you

For more information

Tracey Carrigan

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