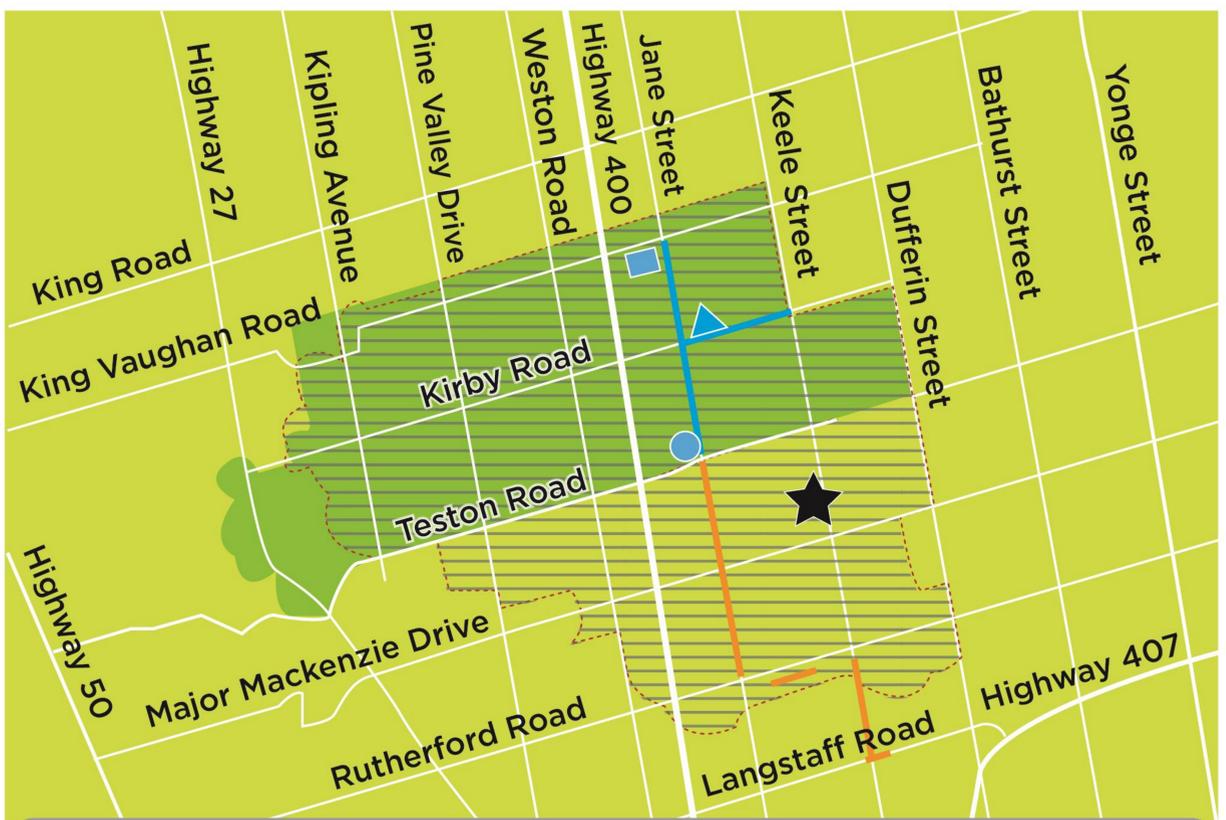


Northeast Vaughan Water and Wastewater Servicing

Class Environmental Assessment

Public Open House No. 2



LEGEND

- | | |
|---|---|
|  Water Service Boundary |  New Water Pumping Station |
|  Wastewater Service Boundary |  New Elevated Water Storage Tank |
|  Open House (Maple Community Centre) |  New Elevated Water Storage Tank and Pumping Station |
| |  New Watermains |
| |  New Sewer Network |



Orchard Heights Pumping Station Construction



Kennedy Road Watermain Construction



Queensville Elevated Tank



Example Sewer Construction Compound

WELCOME!

Thank you for coming to York Region's second Public Open House for the ***Northeast Vaughan Water and Wastewater Servicing Class Environmental Assessment***

The purpose of this Public Open House is to present York Region's plans to bring drinking water and wastewater collection to northeast Vaughan. Today we will:



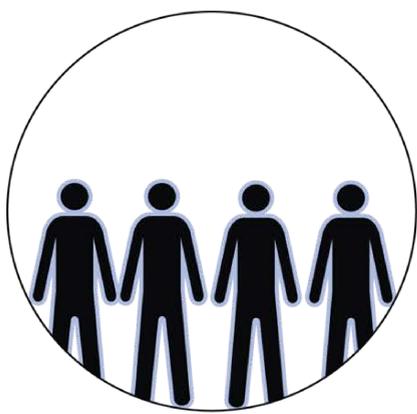
- **Please sign-in at the registration table on arrival**
- **Feel free to approach a project team member to discuss the project**
- **Please share your thoughts with us by completing a comment form**

Project Purpose

To develop a water and wastewater solution for anticipated growth in northeast Vaughan to the year 2051. The solution will reflect York Region's *Sustainability Strategy* and will be in accordance with applicable environmental statutes.

These statutes include but are not limited to the *Environmental Assessment Act, 1990*, *Oak Ridges Moraine Conservation Act, 2001*, and the *Greenbelt Act, 2005*.

Forecasted Growth in the City of Vaughan



2015

Residential: 320,800
Employment : 214,000



2031

Residential: 420,000
Employment : 270,000

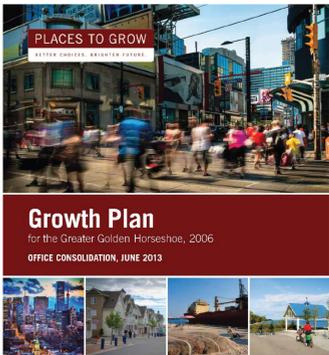


2041

Residential: 497,400
Employment : 321,500

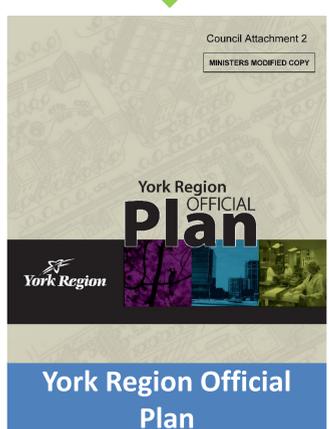
*Sources: York Region Water and Wastewater Master Plan, 2016;
Growth Plan for the Greater Golden Horseshoe, 2013*

Ontario's Growth Plan (2006)



Ontario's Growth Plan

Ontario's Growth Plan for the Greater Golden Horseshoe has forecasted York Region to grow to 1.6 million people by 2031 (and 1.8 million people by 2041)



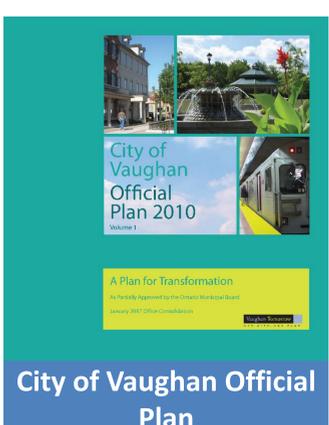
York Region Official Plan



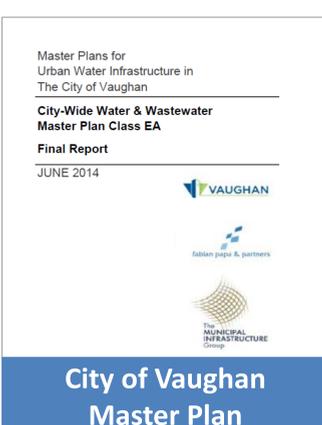
York Region Master Plan

York Region's 2016 Water and Wastewater Master Plan:

- Provided framework for long-term water and wastewater servicing
- Recommended Regional infrastructure for servicing anticipated growth



City of Vaughan Official Plan

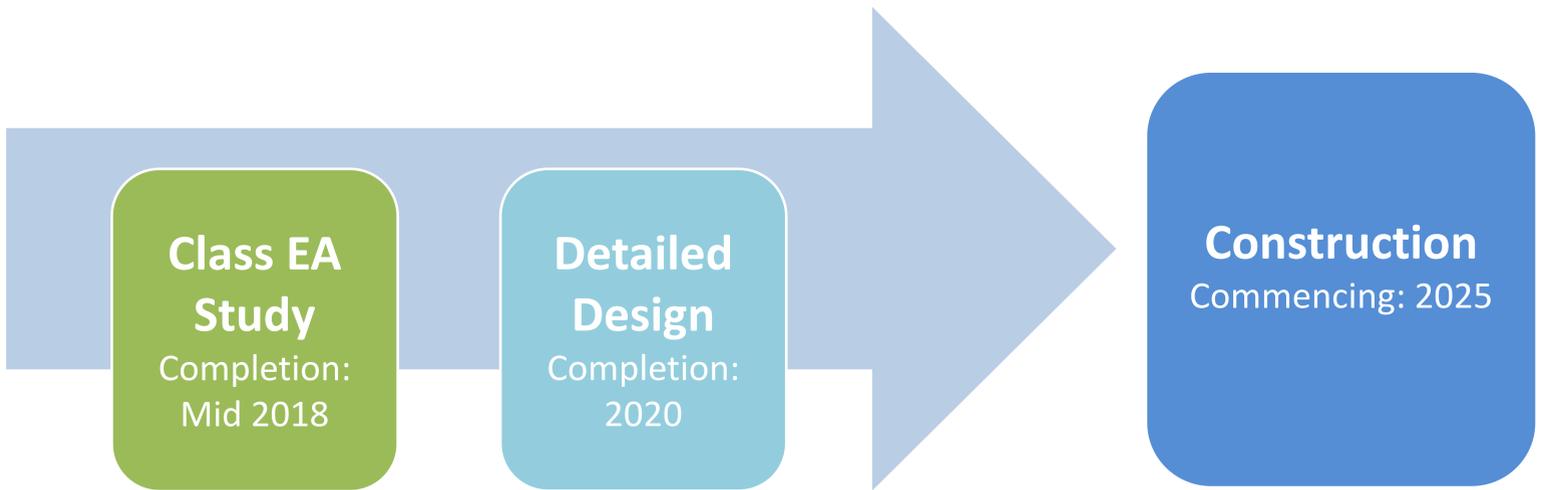


City of Vaughan Master Plan

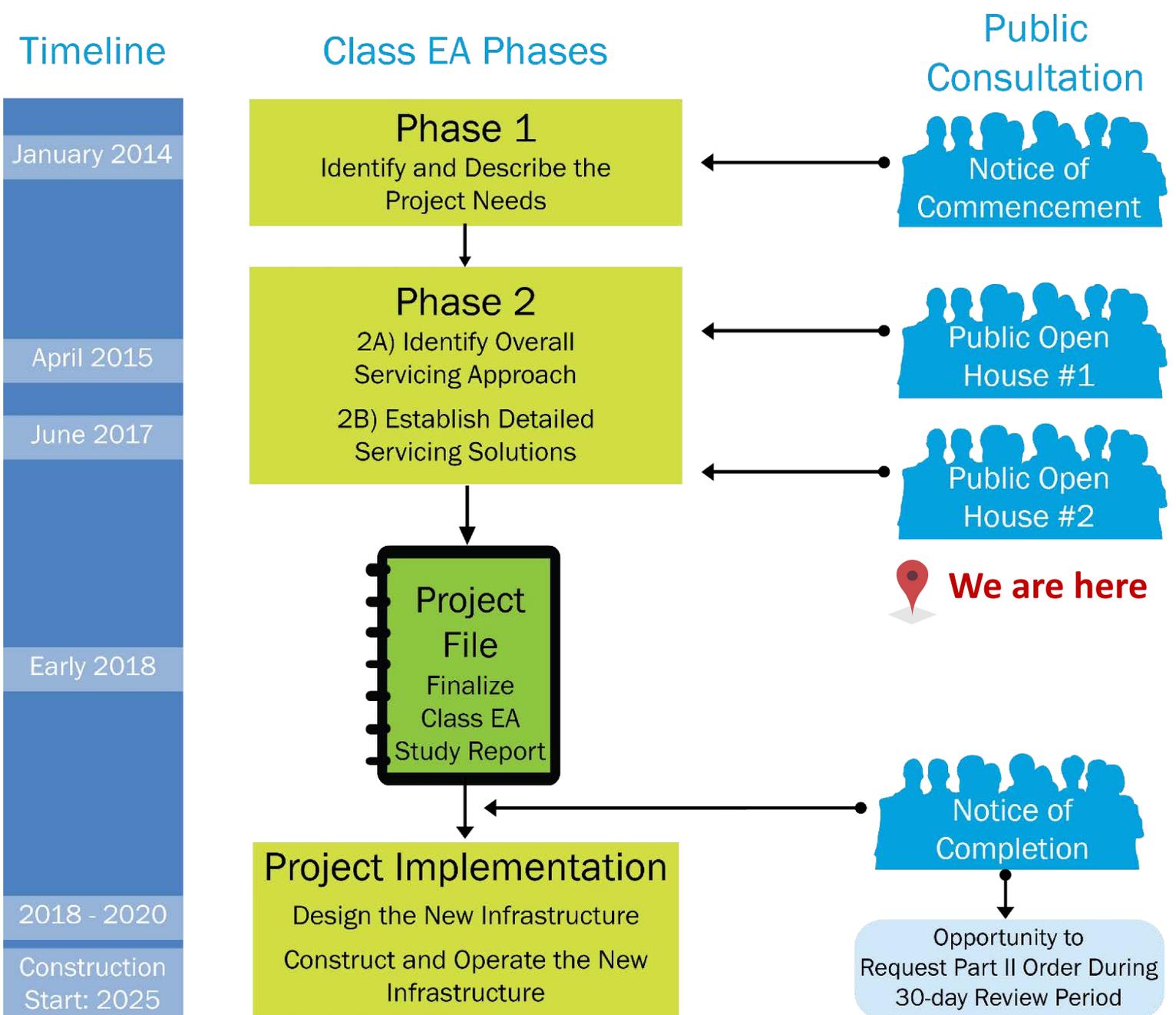
City of Vaughan's 2014 Water and Wastewater Master Plan Update:

- Recommended the local infrastructure for servicing anticipated growth

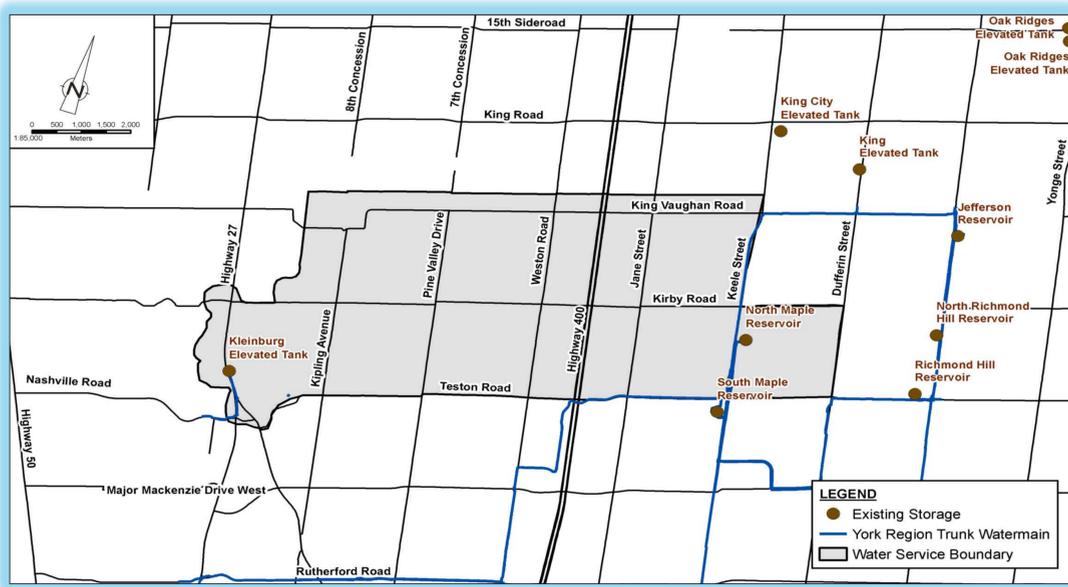
Overall Project Schedule



York Region is carrying out this study in accordance with **Schedule B** of the Municipal Class Environmental Assessment process approved under the *Environmental Assessment Act*



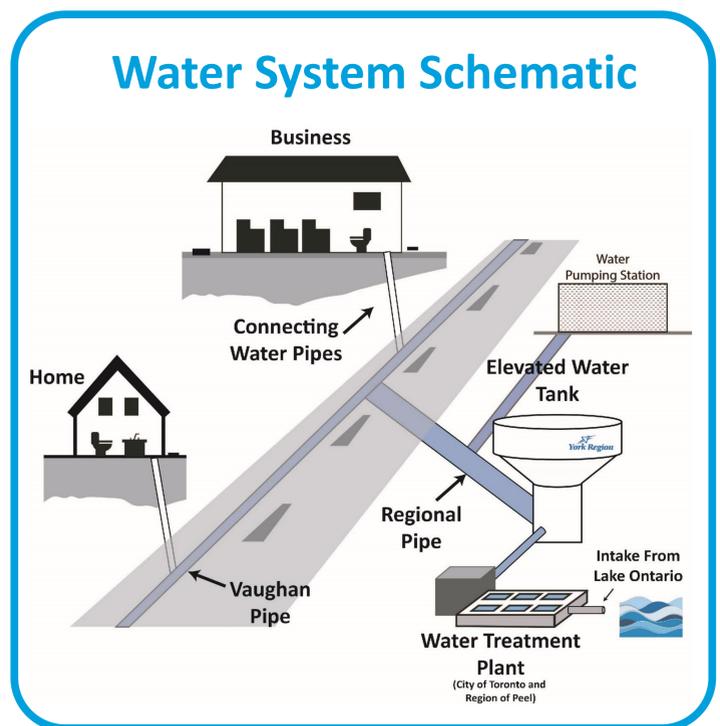
Existing Water Distribution System



York Region supplies bulk water to its area municipalities.

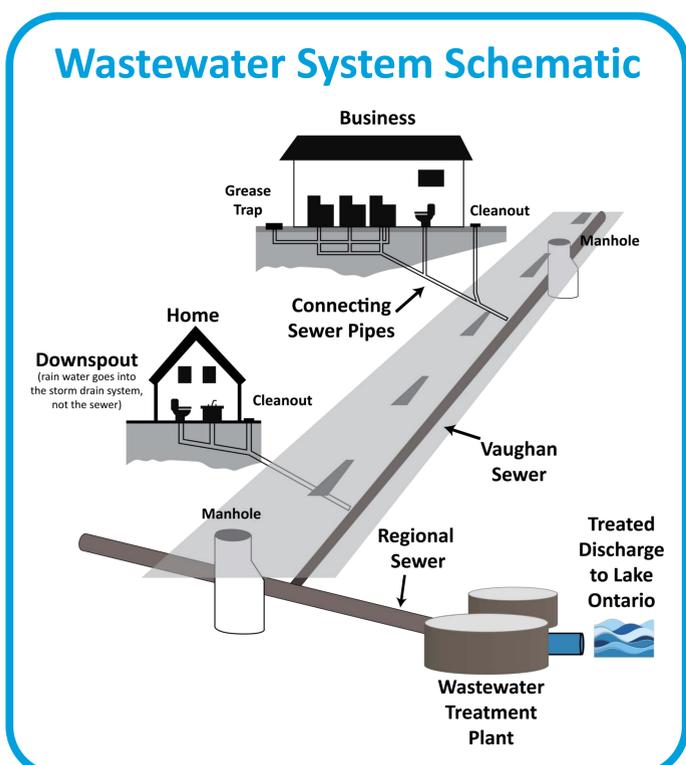
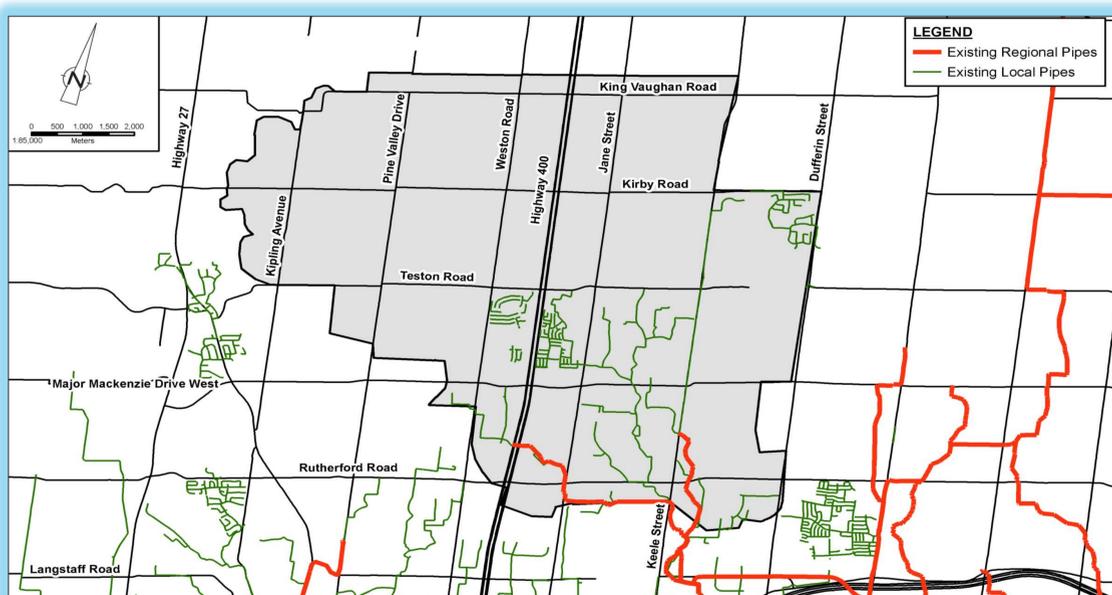
In the City of Vaughan, York Region supplies bulk water through the following:

- York Water System, which gets water from the City of Toronto and Region of Peel
- Well-based groundwater supply system for the community of Kleinburg-Nashville



The City of Vaughan is then responsible for providing water from York Region watermains to homes and businesses.

Existing Wastewater Collection System



York Region sends wastewater from its area municipalities to treatment facilities via major sewers and pumping stations.

The City of Vaughan is responsible for wastewater collection from individual homes and businesses and moving it to Regional sewers for treatment.

How can we bring drinking water and wastewater collection to northeast Vaughan?

To meet expected growth in northeast Vaughan to 2051, the preferred servicing solution is a combination of three alternatives:

Optimize



Adjust Water Levels in Existing Storage Tanks

Share Water from Other Pressure Zones



Upgrade



Upgrade Maple Pumping Station

Continue Upkeep of Existing Sewers



Construct New Water and Wastewater Infrastructure



Two New Elevated Water Storage Tanks



New Watermains



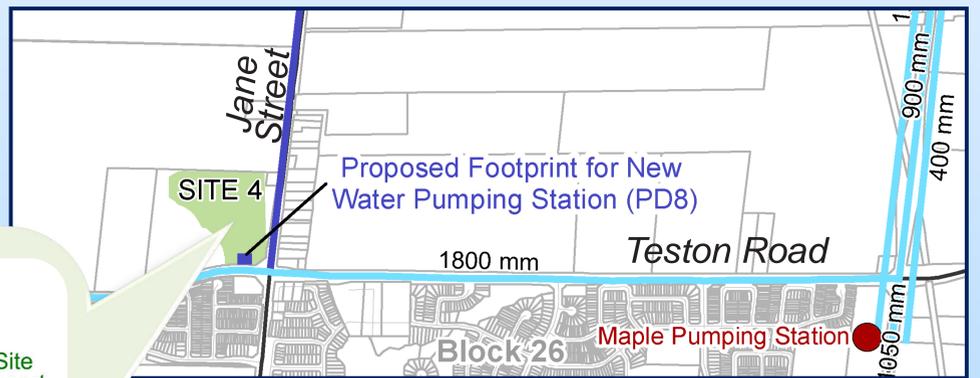
Two New Water Pumping Stations



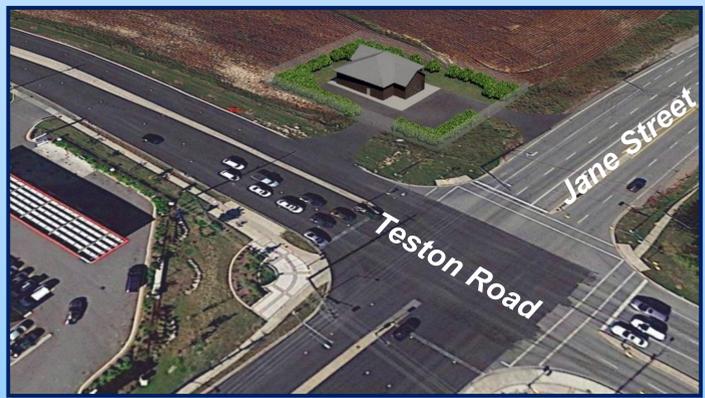
New Sewer Pipes

What is being proposed in my community to provide drinking water?

New Water Pumping Station #1 (Construction to begin as early as 2025)

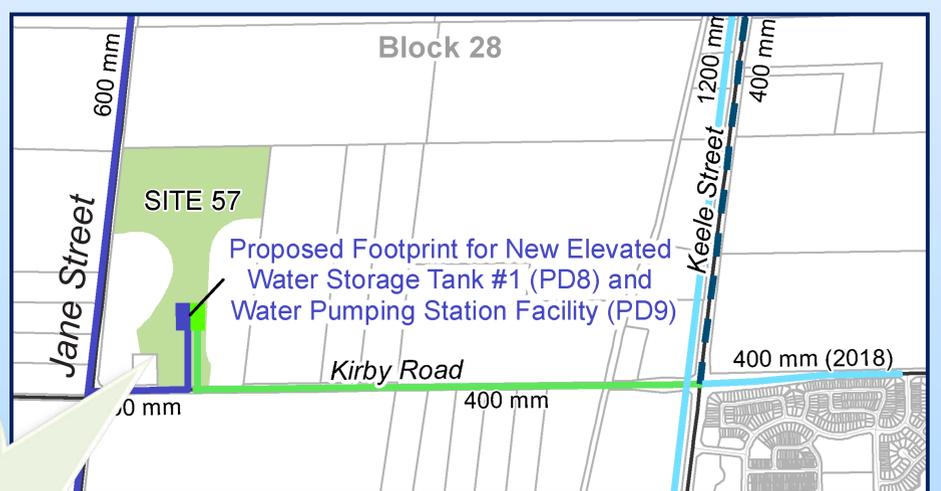


Site Layout



Digital Rendering (looking northwest from Teston Road and Jane Street)

New Water Pumping Station #2 and Elevated Water Tank #1 (Construction to begin as early as 2025)



Location



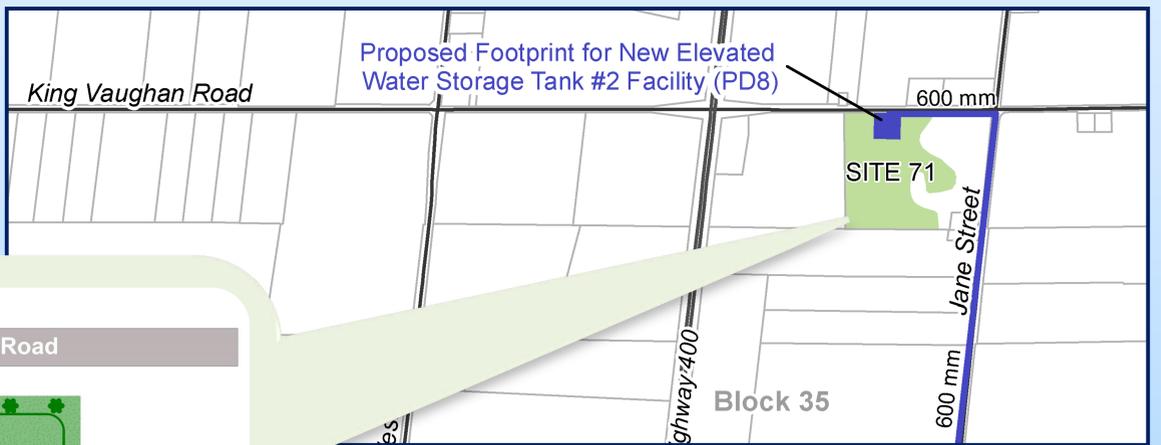
Site Layout



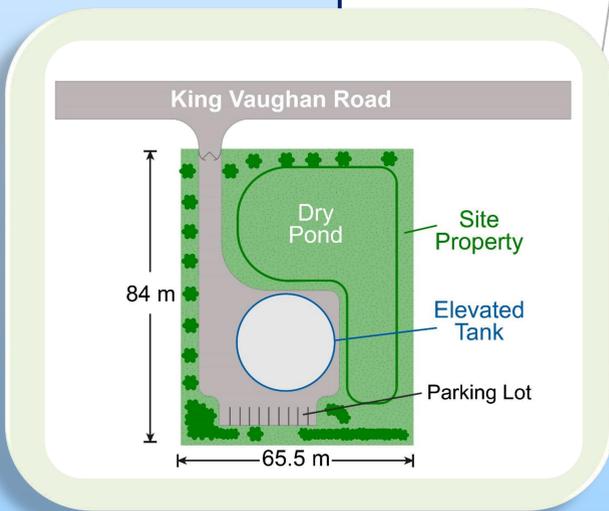
Digital Rendering (looking north from Kirby Road)

What is being proposed in my community to provide drinking water (cont'd)?

New Elevated Water Tank #2 (Construction to begin as early as 2025)



Location



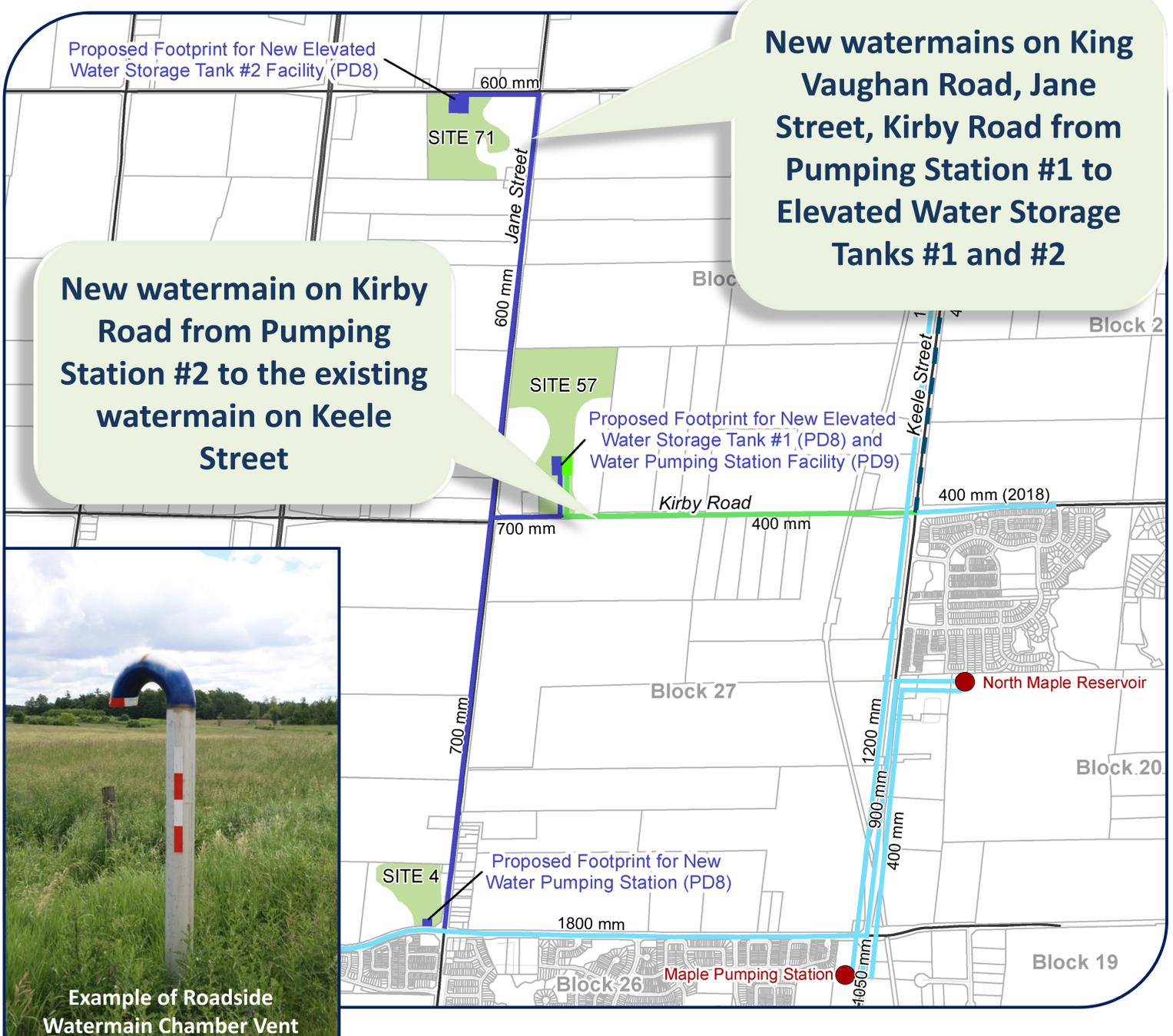
Site Layout



Digital Rendering (looking south from King Vaughan Road)

New Watermains

(Construction to begin as early as 2025)



New watermains on King Vaughan Road, Jane Street, Kirby Road from Pumping Station #1 to Elevated Water Storage Tanks #1 and #2

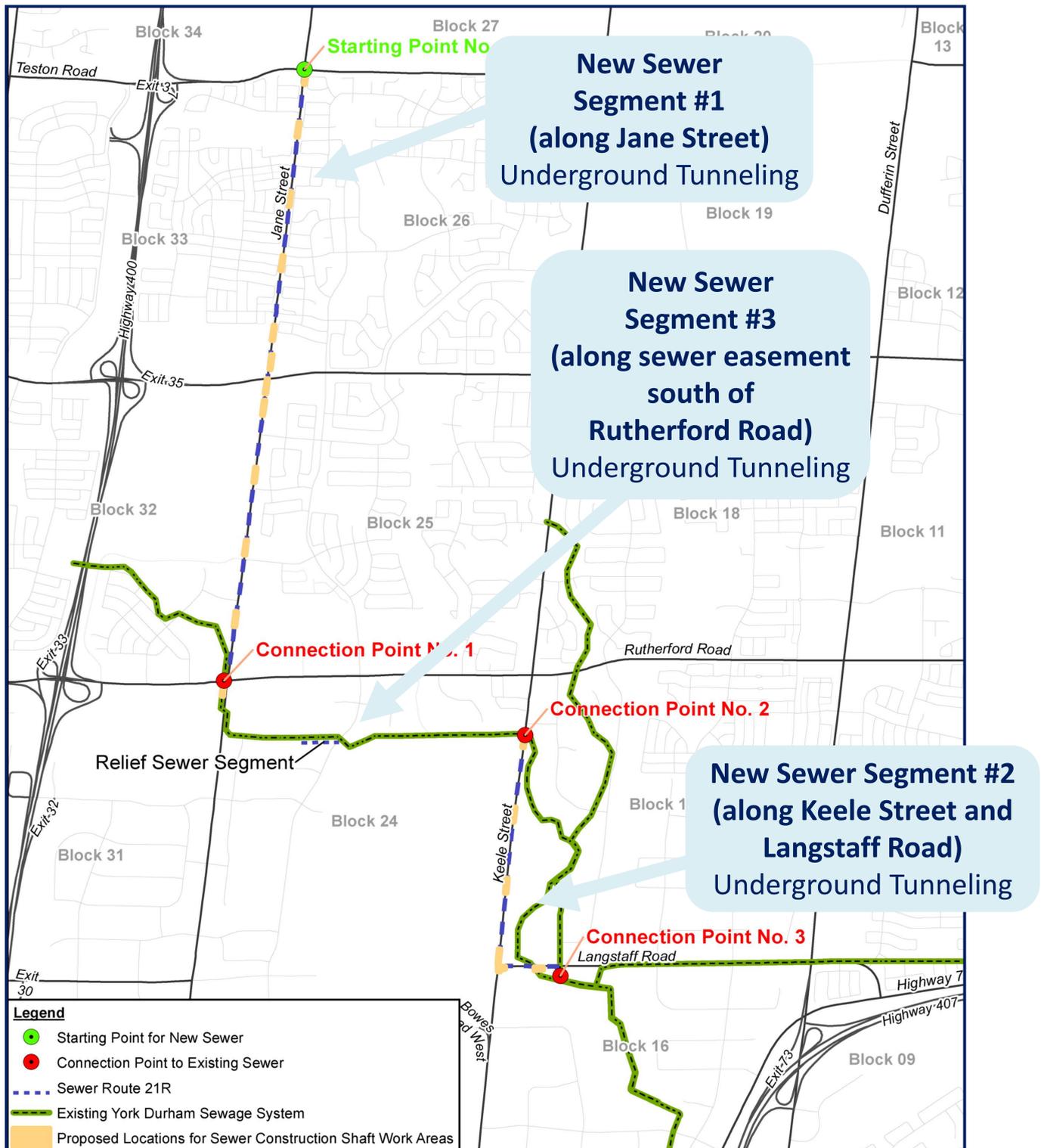
New watermain on Kirby Road from Pumping Station #2 to the existing watermain on Keele Street



Example of Roadside Watermain Chamber Vent

What is being proposed in my community for wastewater collection?

Three New Segments of Sewer Pipe (Construction to begin as early as 2025)



**Sewer maintenance chamber lids
on St. John's Sideroad, Aurora**

What will the water facilities and watermain construction look like?

Pumping Station Construction



Construction of Orchard Heights Pumping Station, Aurora

Elevated Tank Construction



Construction of Deer Park and Aurora East Elevated Tanks

Watermain Construction



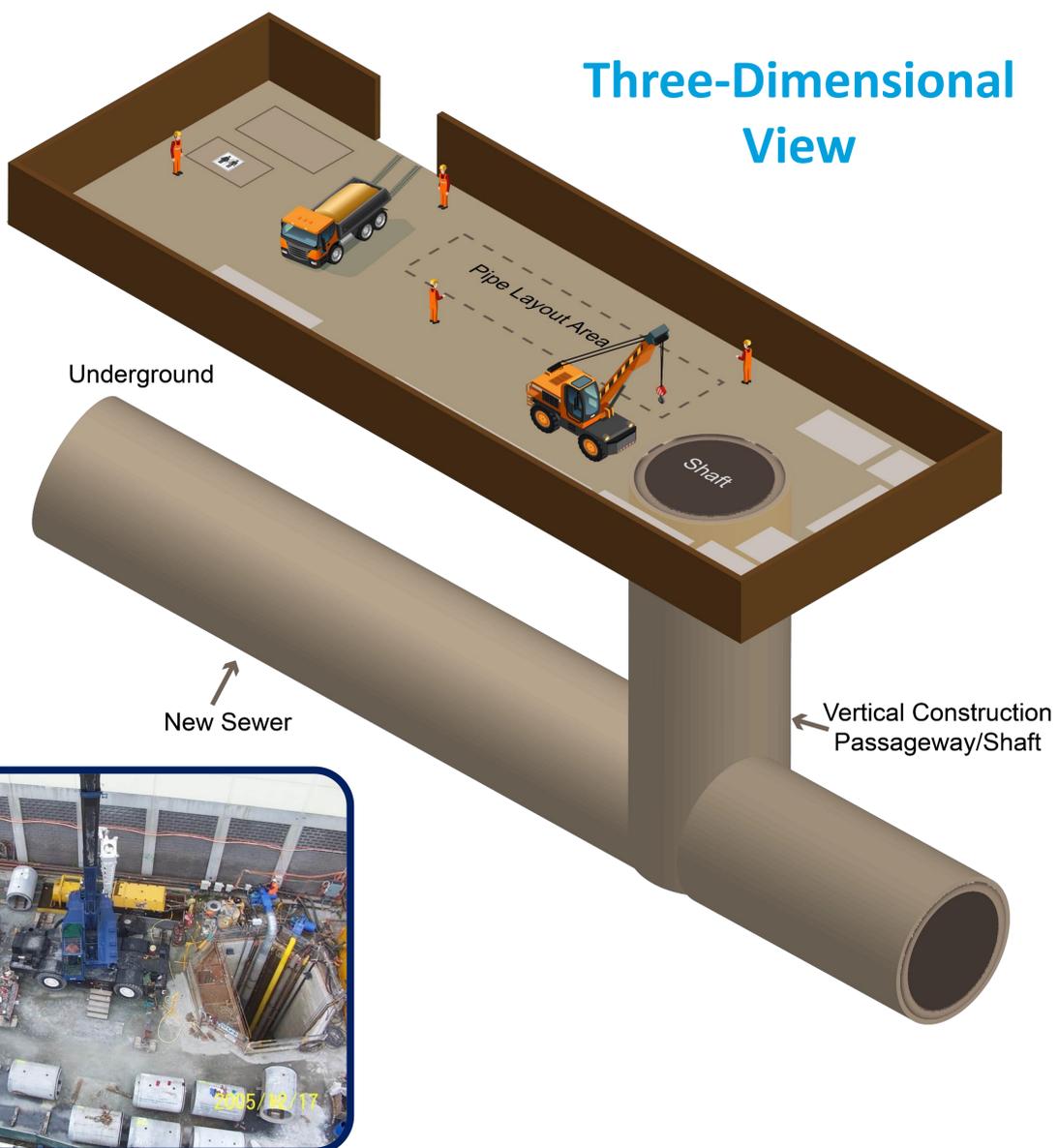
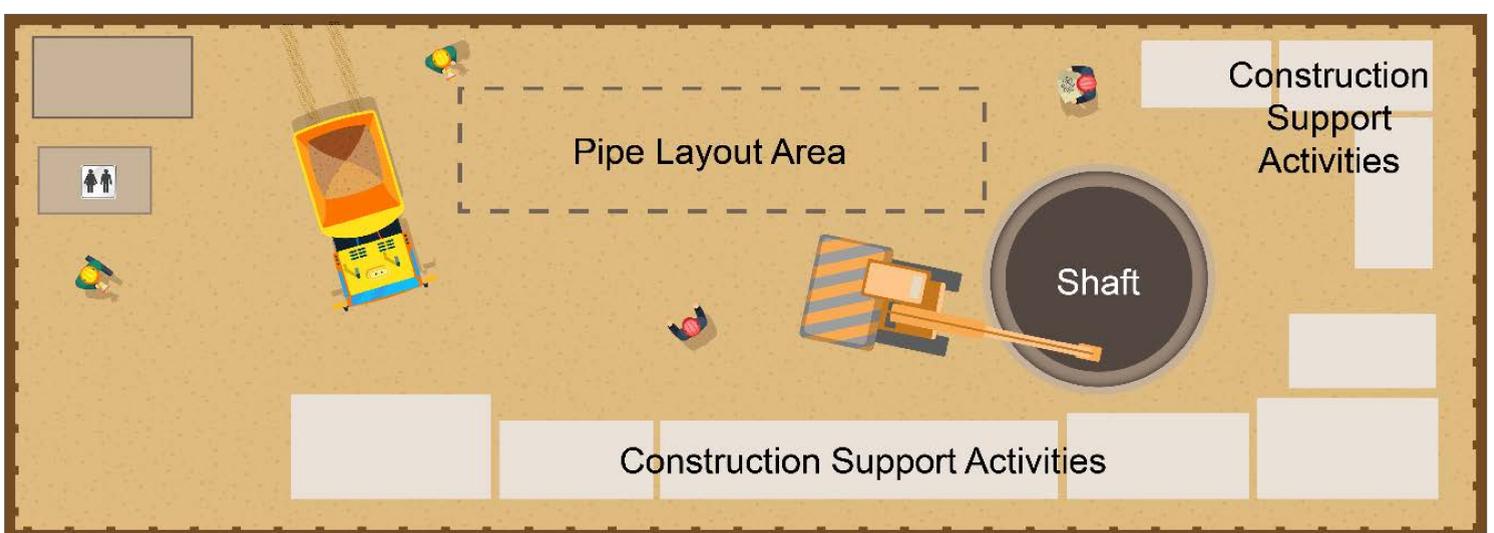
Kennedy Road and McCowan Road Watermain Construction

What will the sewer construction look like?

New Sewer Segments #1 and #2 (Jane Street, Keele Street and Langstaff Road)

New sewer segments #1 and #2 will be constructed using underground tunneling through roadside shafts

Example of a Typical New Sewer Construction Shaft Work Area (Overhead View)



New Sewer Segment #3 (Relief Sewer)



New sewer segment #3 will be constructed via open excavation within the existing easement

Site and Route Selection Process

Site and Route Selection Criteria

Several environmental criteria were considered as part of the water facility site, watermain, and sewer route selections

Technical and Financial

- Constructability
- Cost of site and watermains/cost of sewers

Natural Environment

- Environmentally Sensitive Areas (i.e. wetlands and forests)
- Watercourse crossings along watermain routes/sewer routes

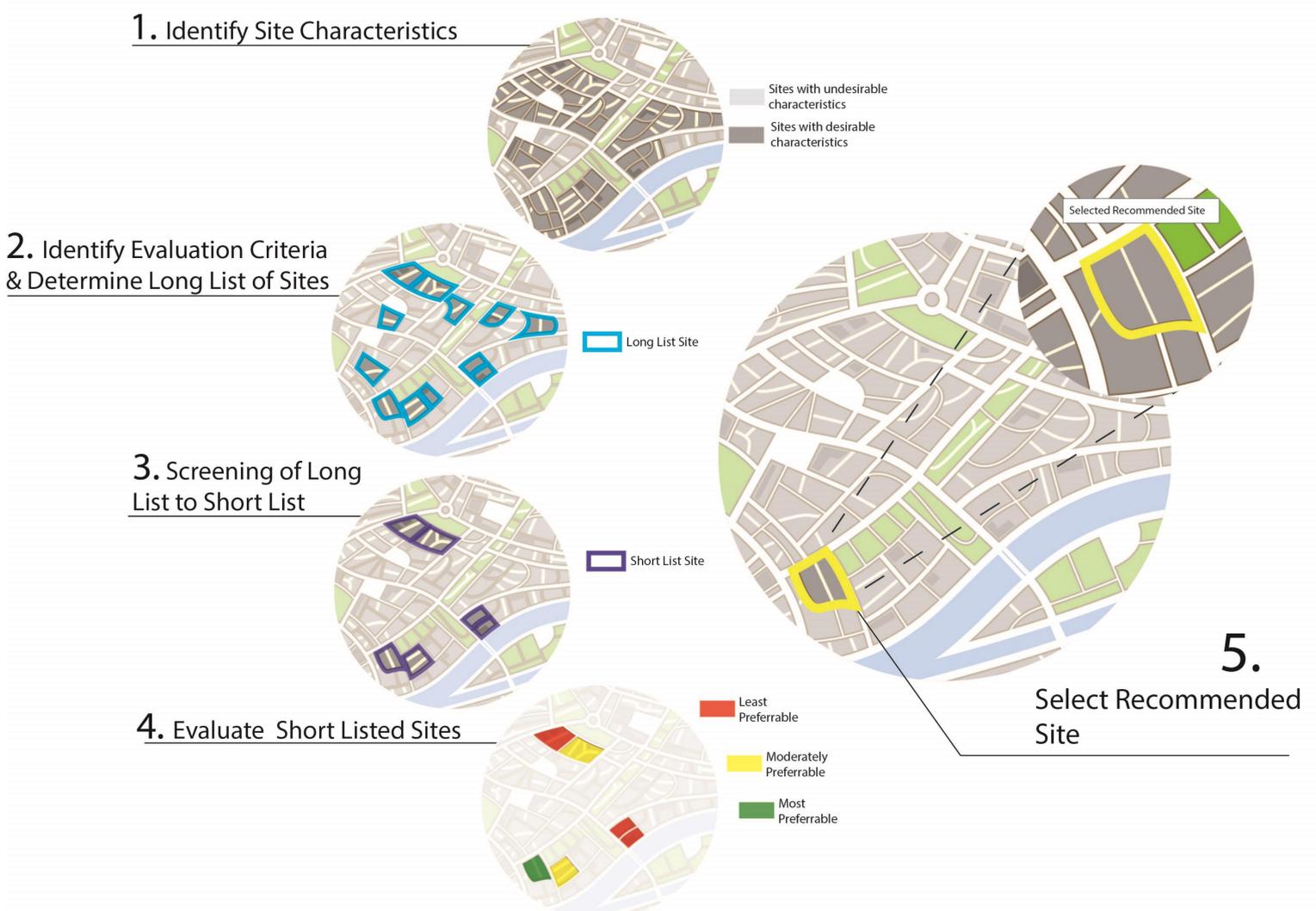
Cultural Environment

- Archaeological Potential
- Built Heritage Resources

Built, Social & Economic Environments

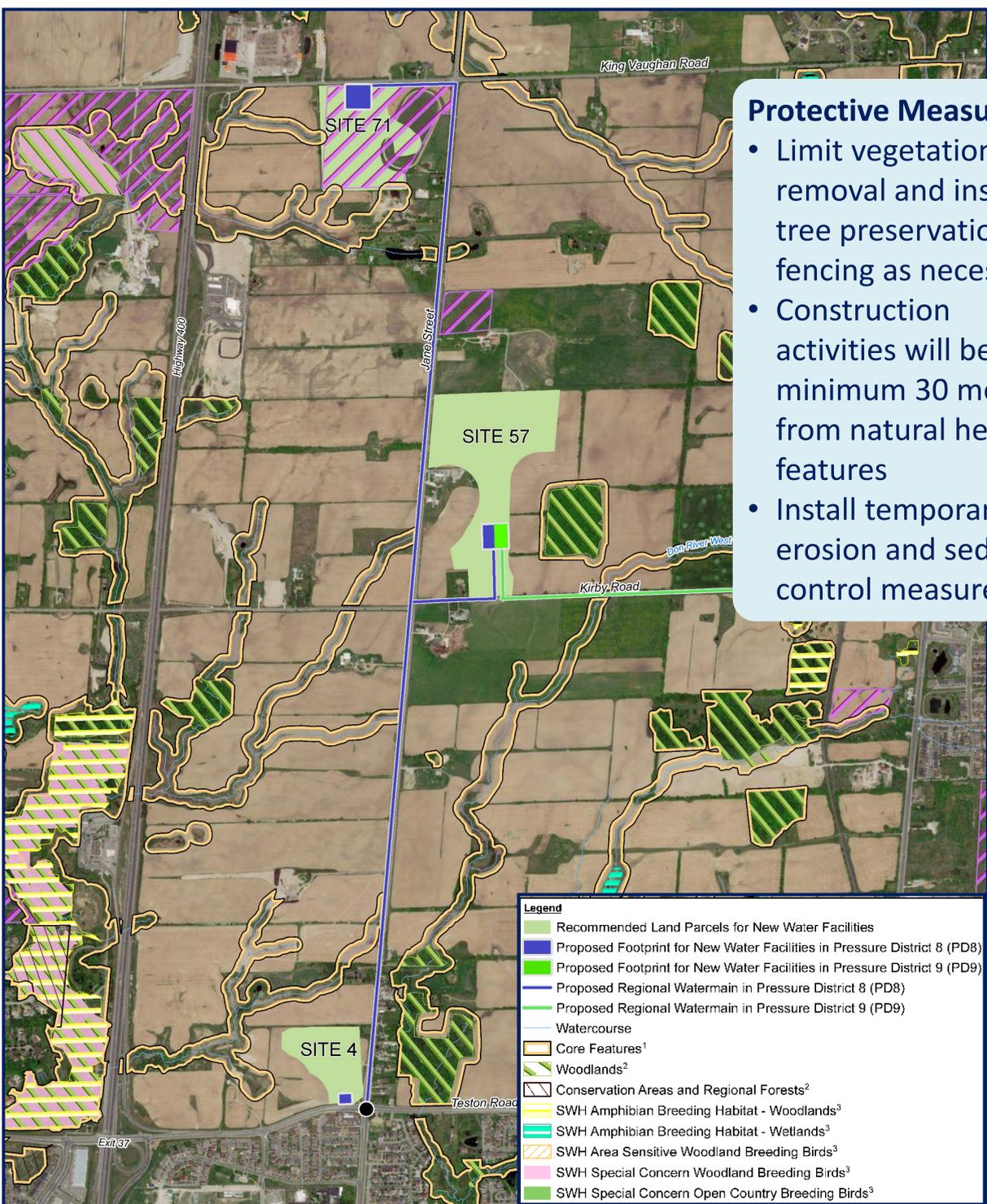
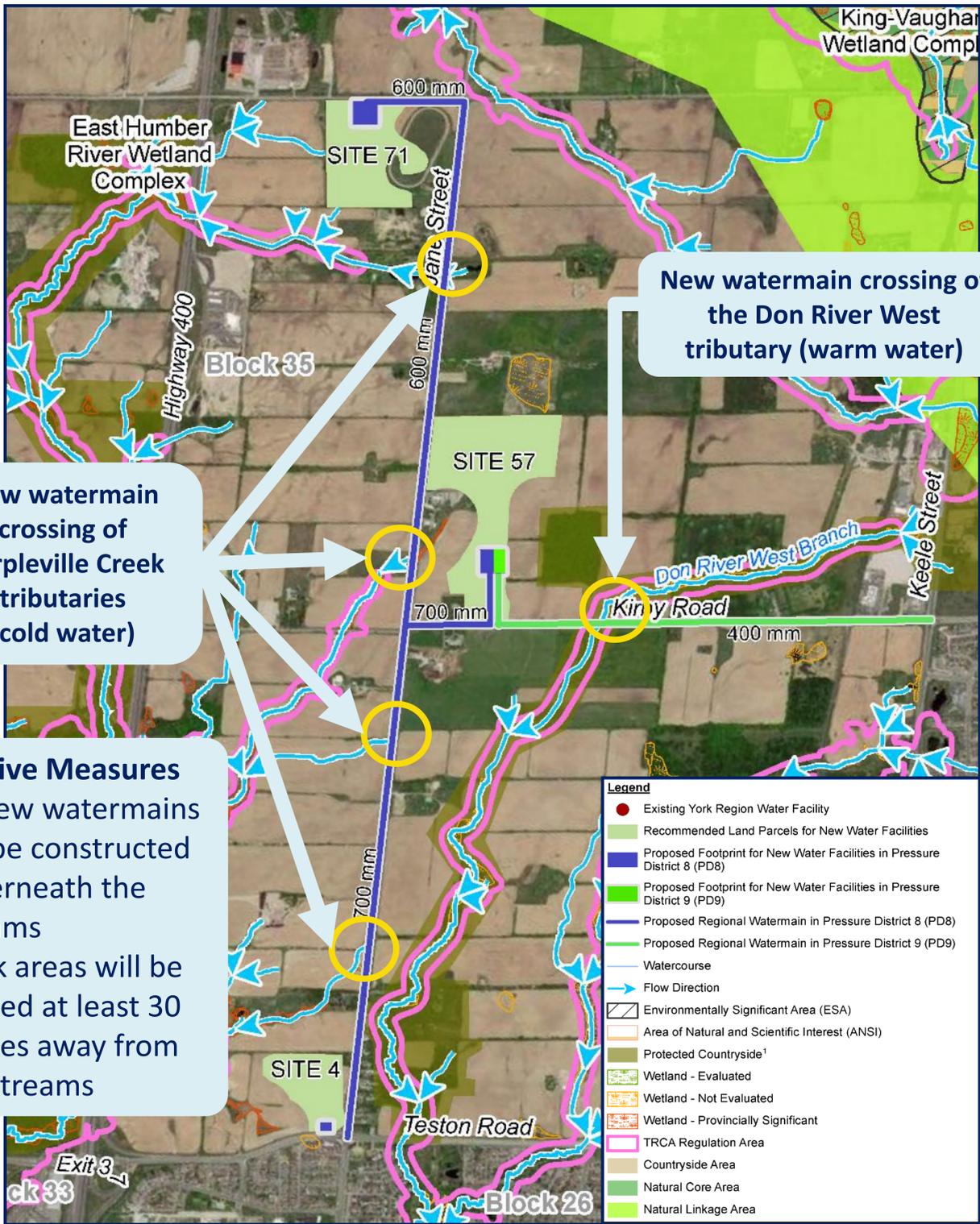
- Proximity to existing residences and businesses
- Number of residences/businesses along watermain route
- Planned future development
- Existing farm operations

Selection Process



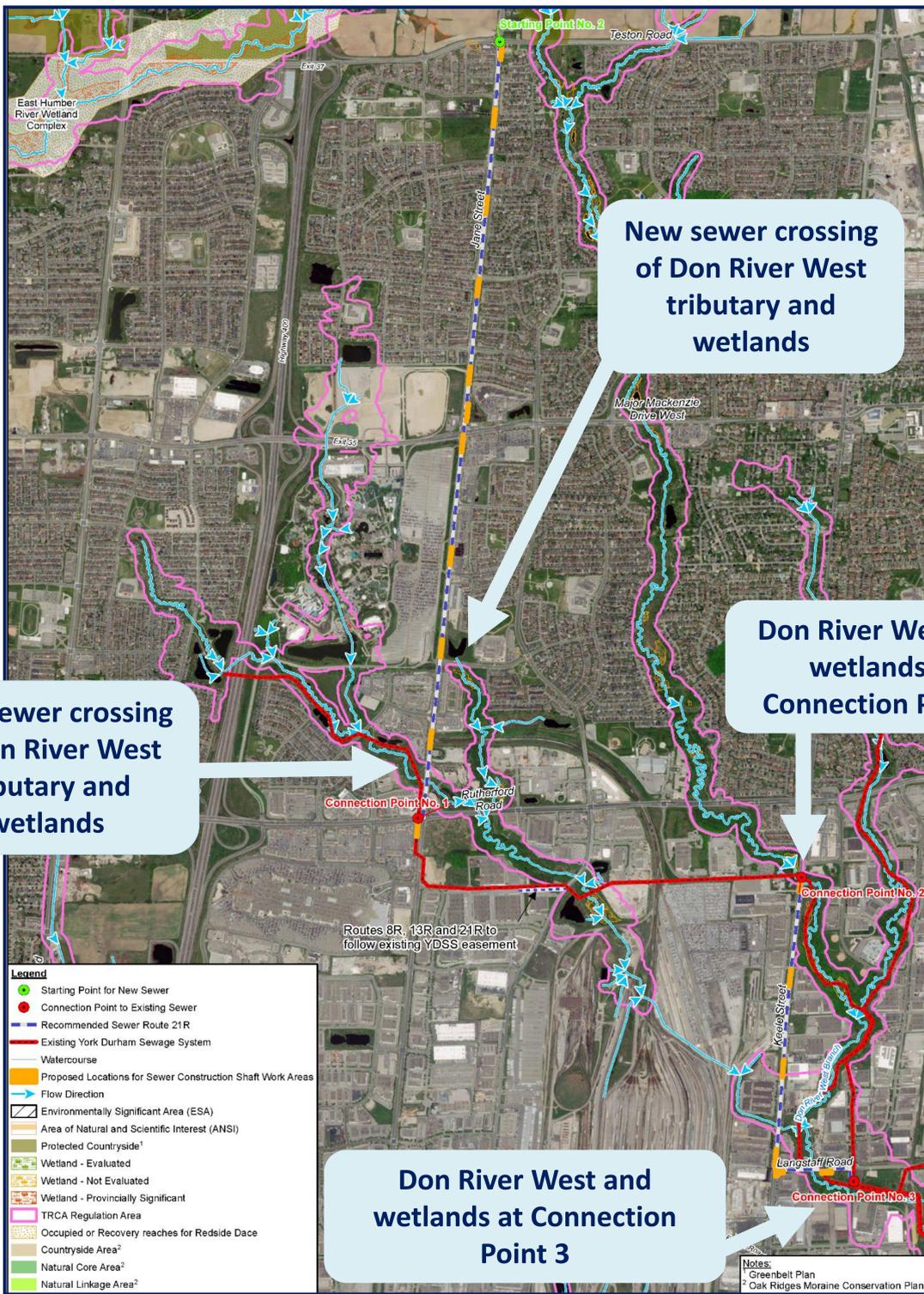
Natural Environment

WATER



Natural Environment

WASTEWATER



Protective Measures

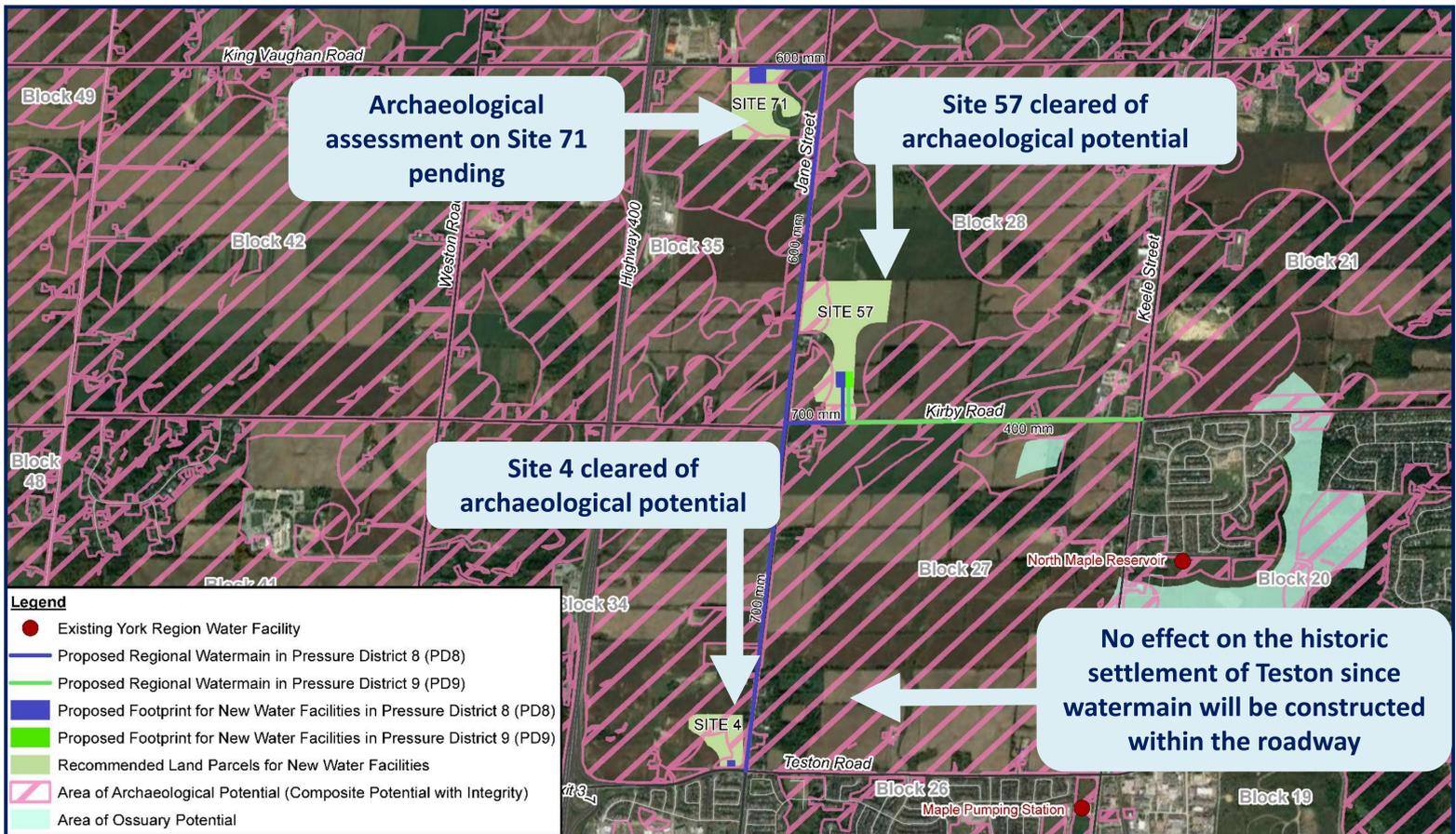
- The new sewer will be constructed underneath the streams, wetlands and rivers
- Street trees and landscaping along route will be avoided, where possible
- Minimize the construction area
- Construct outside of fish breeding times
- Prevent disturbed soil from entering the watercourse



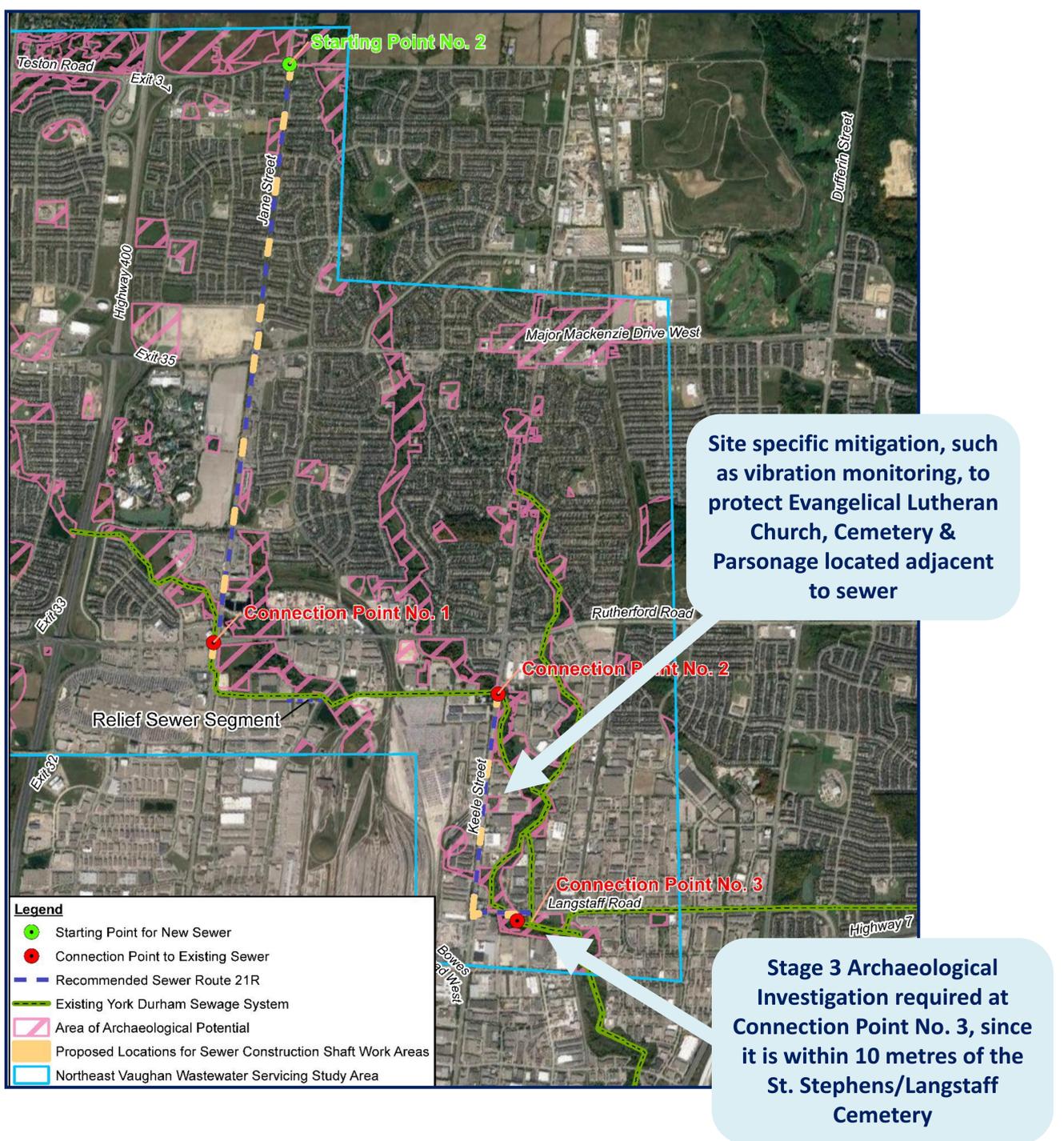
Archaeology and Cultural Heritage

Archaeological sites and cultural heritage features will be protected during construction

WATER



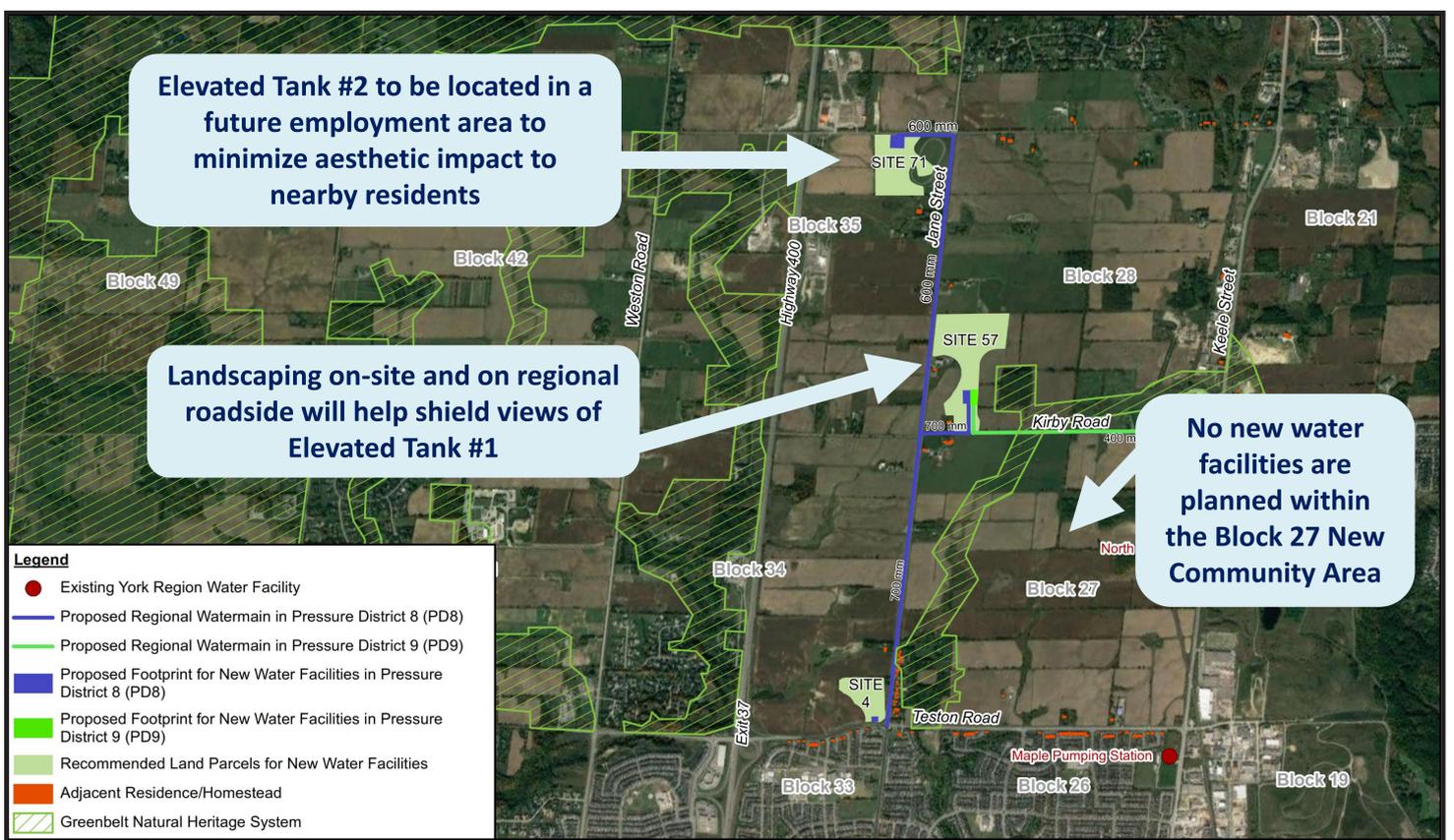
WASTEWATER



Further Stage 1 Archaeological Assessment to be conducted this summer to confirm potential construction shaft work areas do not have archaeological potential

Existing and Future Land Uses

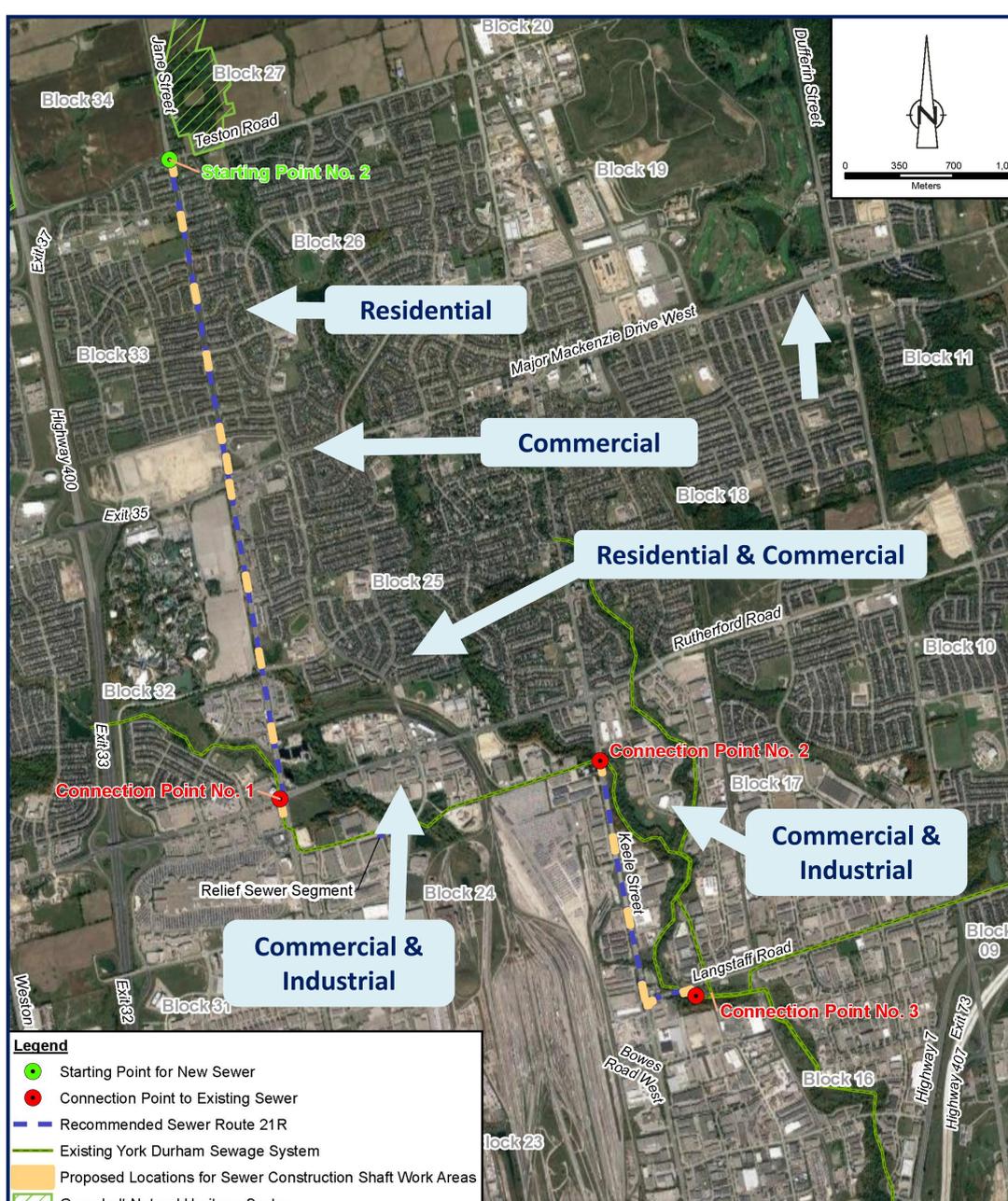
WATER



How we are going to minimize disruption during construction to residences & business?

- The proposed sewer will be constructed primarily by tunneling to minimize disruption
- Traffic, lane closures, and access to residential/commercial driveways will be addressed through traffic management plans
- Construction work areas will be limited to road right-of-ways as much as possible
- The number and size of sewer compounds will be minimized
- A contact for public inquiries will be available, both during and after regular work hours
- Best management practices will be used for noise, vibration and dust

WASTEWATER



Comments

If you would like more information and/or to provide written comments after today, please contact York Region's Project Manager using the comment forms provided



COMMENTS

**Northeast Vaughan Water and Wastewater Servicing
Class Environmental Assessment
Public Open House No. 2**

Please provide any comments you may have regarding the proposed project

Name: _____ Date: _____
 Address: _____ Telephone: _____
 E-mail Address: _____

Please add me to the Project contact list

How did you hear about this event? Letter/E-mail Local newspaper Other:

Comments

What are your thoughts on the proposed new water infrastructure presented?

What are your thoughts on the proposed new wastewater infrastructure presented?

Additional comments:

Please provide your written comments by **Thursday, July 13, 2017** to:

<p>Tammy Silverstone, M.Eng., P.Eng. Senior Project Manager The Regional Municipality of York Capital Planning and Delivery Branch, Environmental Services Department 17250 Yonge Street, Newmarket, ON L3Y 6Z1 Phone: 1-877-464-9675 ext. 75027 Fax: 905-830-6927 Email: northeastvaughan@york.ca Website: york.ca/ea</p>	<p>Personal information submitted (e.g., name, address and phone number) is collected, maintained and disclosed under the authority of the <i>Environmental Assessment Act</i> and the <i>Municipal Freedom of Information and Protection of Privacy Act</i> for transparency and consultation purposes. Personal information you submit will become part of a public record that is available to the general public, unless you request that your personal information remain confidential.</p>
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To ensure your views are considered, please submit your comments by:

July 13, 2017

You can review these display panels on our website:

york.ca/ea

Key Upcoming Dates

- Summer
2017**

• **Field Work, Construction Feasibility Study & Engineering Pre-Design**
- Fall
2017**

• **Project File Preparation (Finalize the Class EA Report)**
- Winter
2018**

• **Notice of Study Completion & 30-Day Review Period**

Engineering Design to begin in 2018
Construction to begin as early as 2025

Thank you for your interest!
Your input and ideas are encouraged and welcome!

This study is being conducted in accordance with the Municipal Class Environmental Assessment document (October 2015, as amended). Personal information submitted (e.g., name, address and phone number) is collected, maintained and disclosed under the authority of the Environmental Assessment Act and the Municipal Freedom of Information and Protection of Privacy Act for transparency and consultation purposes. Personal information you submit will become part of a public record that is available to the general public, unless you request your personal information remain confidential.