NORTHEAST VAUGHAN WATER AND WASTEWATER SERVICING PROJECT



Stakeholder Advisory Committee Meeting No. 4

Purpose

Meeting Purpose:

- To present the preferred water and wastewater infrastructure for servicing northeast Vaughan
- To obtain input on the proposed impact management measures/monitoring and post EA approvals/requirements
- To discuss the next steps and filing of the Project File Report



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Agenda

1	Introductions and Project Update		
2A	Water Pumping Stations, Elevated Tanks, and Watermains		
2B	Impact Mitigation, Proposed Monitoring and Post EA Approvals		
ЗA	Trunk Sewer and Construction Shafts		
3B	Impact Mitigation, Proposed Monitoring and Post EA Approvals		
4	Next Steps and Submission of the Project File Report		



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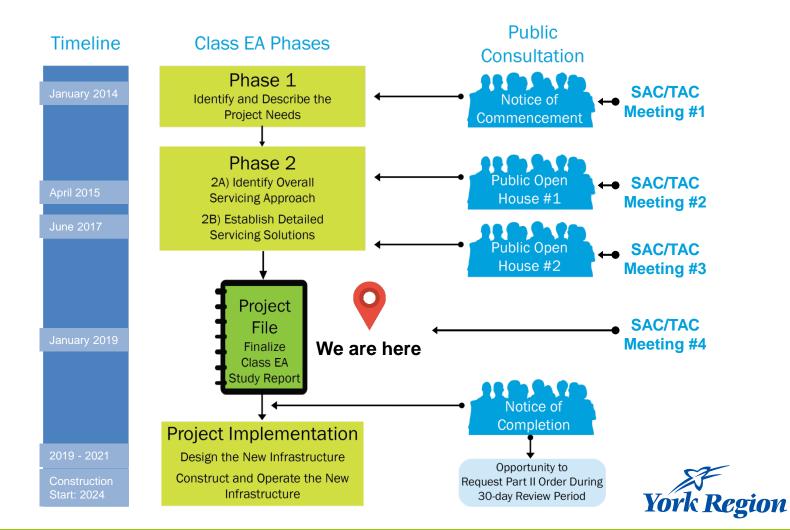
Introductions and Project Update



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Project Timeline and Status

Municipal Class Environmental Assessment Process (Schedule B)



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Pumping Stations, Elevated Tanks, and Watermains



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Overview of Servicing Approach



- Adjust water levels in existing storage tanks
- Share water from other pressure zones

Upgrade



- Upgrade Maple Pumping Station
- Repair existing sewer leaks

Construct New Water and Wastewater Infrastructure

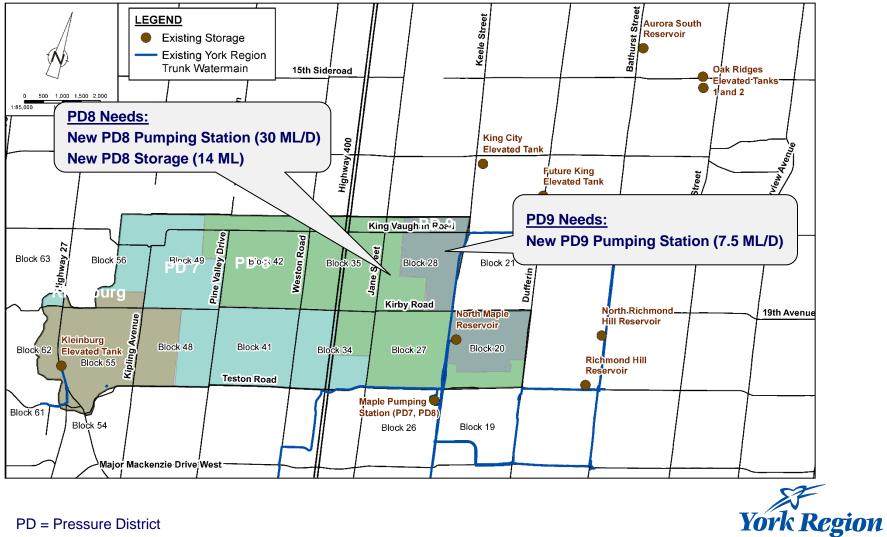


New pumping stations, elevated water tanks, watermains and trunk sewer



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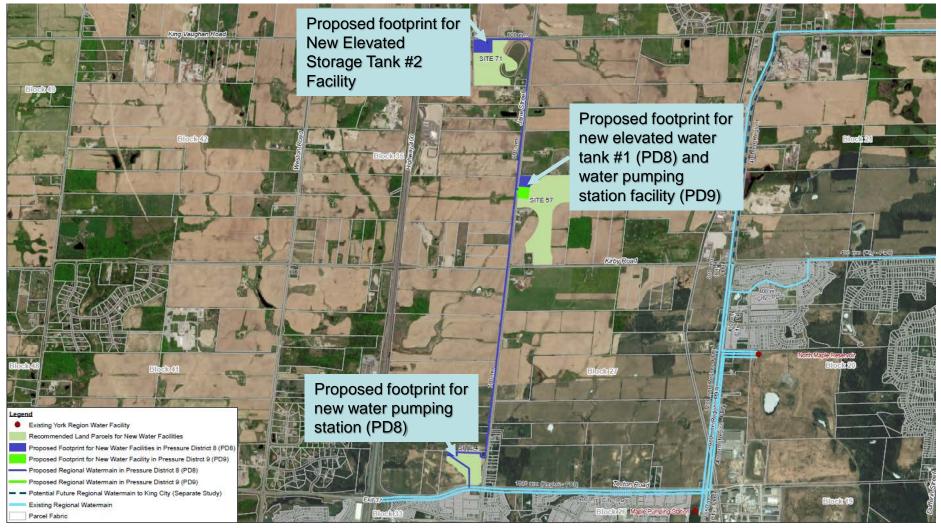
Water Service Area and **Infrastructure Needs**



PD = Pressure District

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New Water Infrastructure

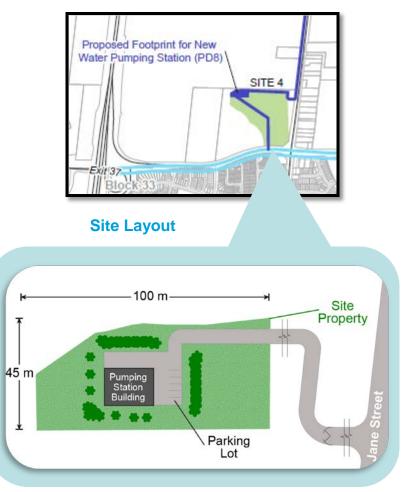




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New Water Infrastructure (New PD8 Water Pumping Station)

Location







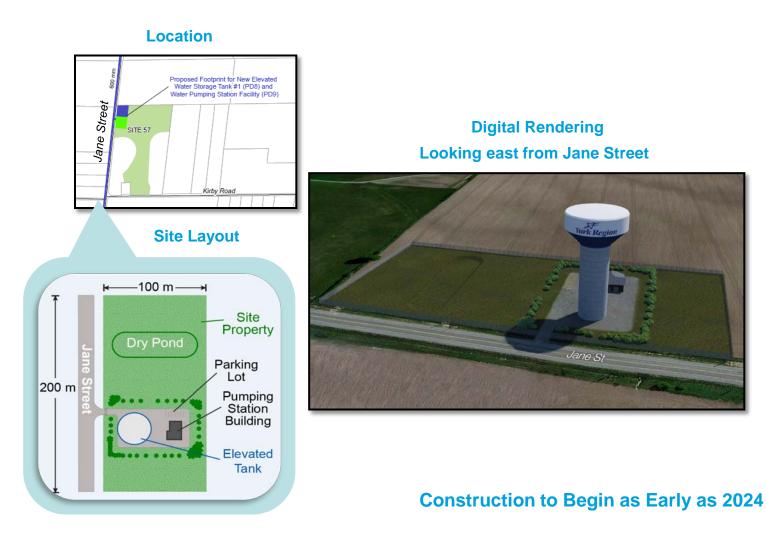
Construction to Begin as Early as 2024



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New Water Infrastructure

(New PD9 Water Pumping Station and Elevated Water Tank #1)

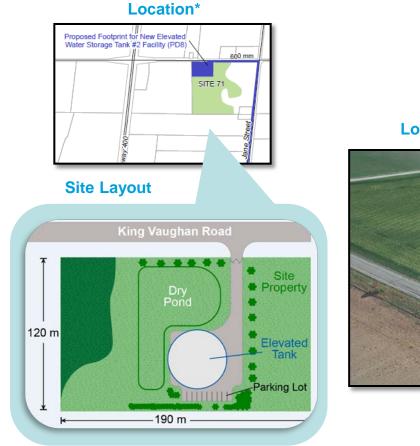


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New Water Infrastructure

(New Elevated Water Tank #2)



Digital Rendering Looking south from King Vaughan Road



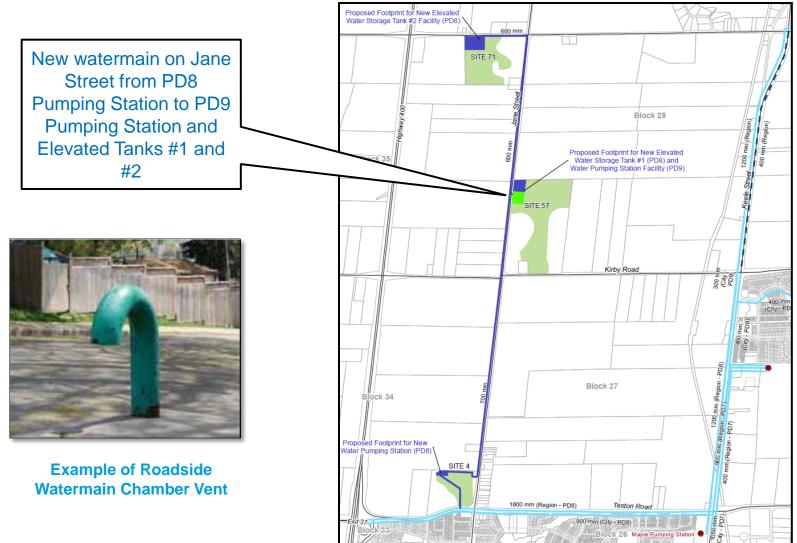
Construction to Begin as Early as 2024



*The exact location of Elevated Water Tank will be confirmed as part of detailed design.

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New Water Infrastructure (New Watermains)



Construction to Begin as Early as 2024

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What Will the Water Facilities and Watermain Construction Look Like?

Pumping Station Construction



Elevated Tank Construction



Watermain Construction





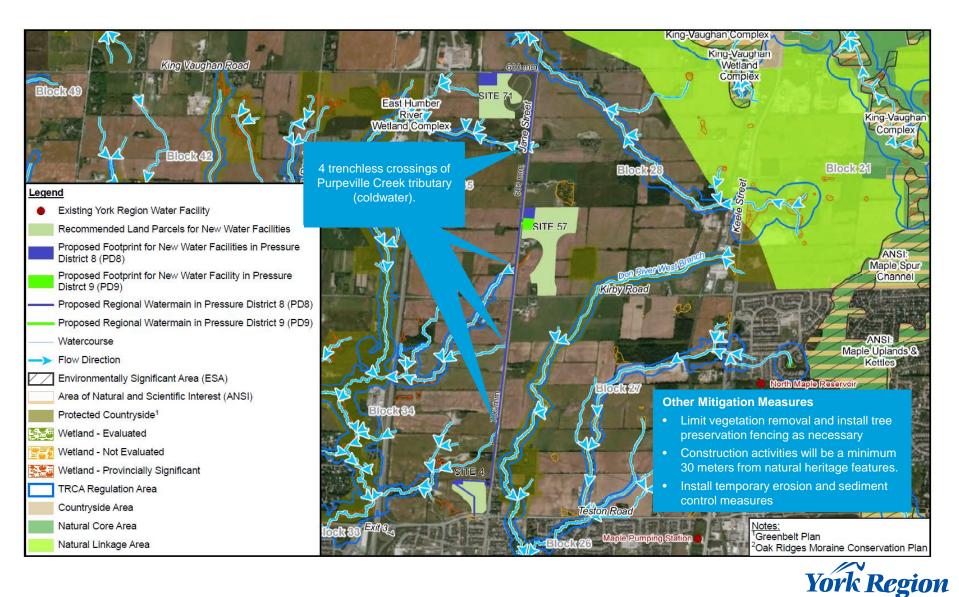
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Impact Mitigation, Proposed Monitoring and Post EA Approvals



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Natural Environment (Water)



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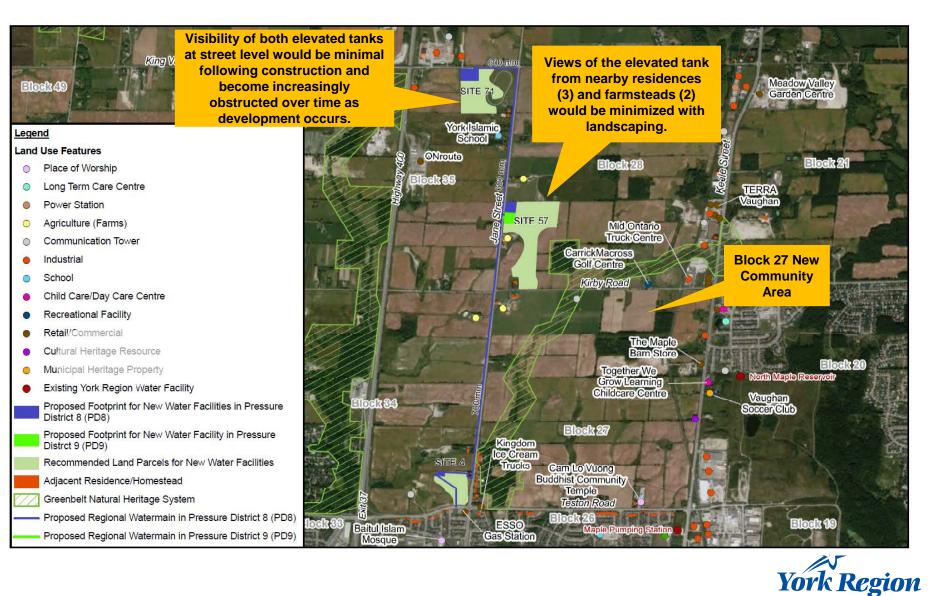
Archaeology and Cultural Heritage (Water)





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Existing and Future Land Uses (Water)



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Water Infrastructure Construction Impact Management Measures

- Locate all work site areas a minimum of 30 m from any surface water feature
- Limit removal of vegetation, especially mature trees and shrubs
- Workspaces that are limited to road right-of-ways as much as possible
- Some need for easements, to be negotiated
- Lane closures with traffic management plans
- Best management practices for noise, vibration and dust
- On and off-hours contact information for public inquiries



February 7, 2019

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Proposed Monitoring Programs

- Tree protection fencing during construction
- Ground settlement monitoring in close proximity to transportation corridors
- Pre-construction baseline soil sampling and construction phase soil management
- Vibration management program
- Surface water monitoring program during construction



Post EA Approvals

Approval Authority	Anticipated Post-EA Permits and Approvals Required	Legislation or By-Law Reference
Municipal and Regiona		
City of Vaughan	Road Cut (Road Occupancy) Permits	By-Law #294-94
	Noise Control By-Law	By-Law #96-2006
	Dewatering Discharge Permit	By-Law #087-2016
York Region	Road Occupancy Permits	Not subject to legislation/by-law
	Dewatering Activity Discharge Approval	By-Law # 2011-56 and 2012-70
Utility Authorities	Consent from:Hydro One Networks Inc.TelusBell CanadaAllstream Inc.Rogers PowerStreamTransCanada Pipe LinesCogecoLimited	Not subject to legislation or by-law
Toronto Region Conservation	Permit for Development, Interference with Wetlands and Alterations to Shorelines and Watercourses	Ontario Regulation 166/06 under the Conservation Authorities Act
Authority	Erosion and Sediment Control Plan and Surface Water Management Plan	Conservation Authorities Act
Provincial		
Ministry of the Environment,	Permit to Take Water (PTTW) or Environmental Activity and Sector Registry(EASR)	Ontario Water Resources Act
Conservation and	Drinking Water Works Permit (DWWP)	Environmental Protection Act
Parks	WHPA Q1/Q2 policy area, and Significant Groundwater Recharge Area	Clean Water Act
	Permit or Registry	Endangered Species Act
Ministry of Tourism, Culture and Sport	Compliance letter	Ontario Heritage Act
Federal		
Fisheries and Oceans Self-Assessment/Letter of Advice or Authorization Canada		Fisheries Act Species at Risk Act
Property Agreements		
Property Owners	Permanent and temporary easements from affected property owners	Not subject to legislation or by-law

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Implementation Schedule

York Region's current anticipates implementation of the new water infrastructure in service by 2028.



The anticipated implementation timeline is based on known information at this time and is subject to change.



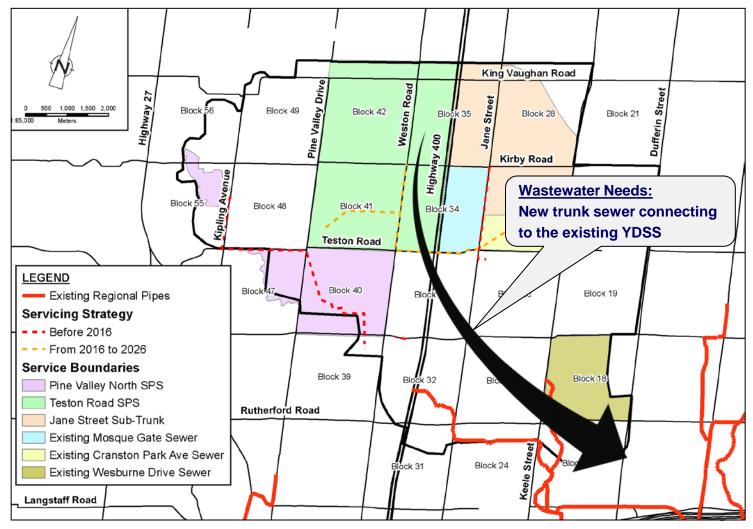
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Trunk Sewer and Construction Shafts



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Wastewater Service Area and Infrastructure Needs



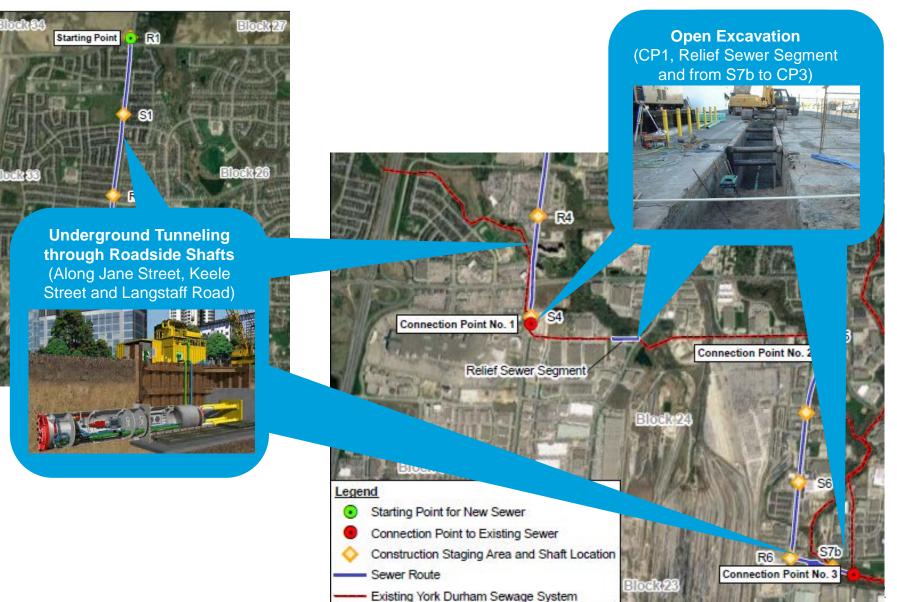
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Trunk Sewer Route and Construction Shafts



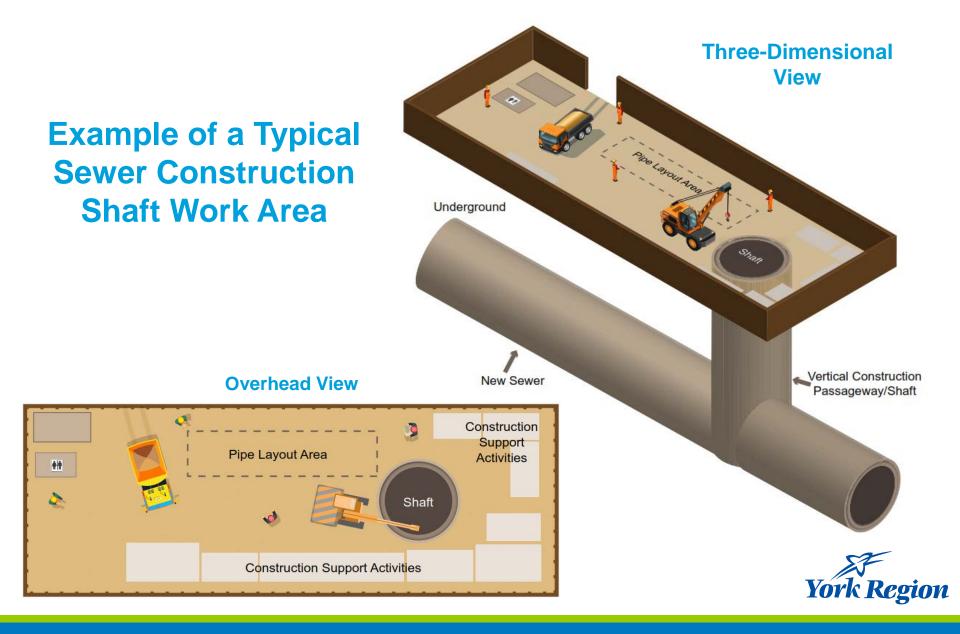
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What Will the Sewer Construction Look Like?



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What Will the Sewer Construction Look Like?



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Impact Mitigation, Proposed Monitoring and Post EA Approvals



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Natural Environment (Sewer)

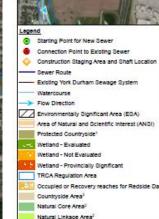
Street trees and landscaping to be avoided, where possible. A temporary loss of a portion of a probable Headwater Drainage Feature through the placement of the staging area at the starting point (R1). Don River Tributary (Above trenchless sewer construction).

ection Point No. 1

Routes 8F

Don River Tributary, unevaluated wetlands and other designated features (Adjacent to sewer construction).

Don River Tributary and unevaluated wetlands and other designated features (Adjacent to trenchless sewer construction).



West Don River and unevaluated wetlands at Connection Point 2. Potential impacts to be managed by site specific mitigation measures and compensation, as required.

easement

West Don River at Connection Point 3. Potential impacts to be managed by site specific mitigation measures and compensation, as required. Greenbelt Plan ⁹ Oak Ridges Moraine Conservation Plan

Notes:

nection Point No. 3



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Restor Read

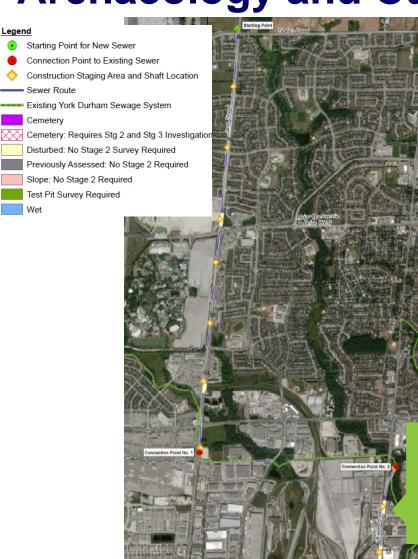
Starting Point

Archaeology and Cultural Heritage (Sewer)

Zion

Evangelical

Church , Cemetery & Parsonage (adjacent to



S7b and Connection Point No. 3



Complete a Stage 2 test pit survey to confirm the presence of any archaeological resources within the shaft construction compounds for S7b and CP3.

Complete Stage 3 Archaeological Assessment as required.

Stage 2 Archaeological Assessment will be completed during detailed design.

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Existing and Future Land Uses (Sewer)



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Sewer Construction Impact Management Measures

- Locate all work site areas a minimum of 30 m from any surface water feature
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Federal						
Fisheries and Oceans Canada	Self-Assessment/Letter of Advice or Authorization	Fisheries Act				
Property Agreements						
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Implementation Schedule

- Presently proposed to be constructed over a longer period.
- The first section along Jane Street from Teston Road to just south of Rutherford Road is anticipated to be in service as of 2028.

Jane Street Section	2019-2021	2022 - 2028
Detailed design, Permits and Property Requirement (2019-2021)		
Tendering and Construction (2022-2026)		
Commissioning and Operation (2028)		

 The Keele Street/Langstaff Road section is anticipated to be implemented by 2041 and the relief sewer by 2051.



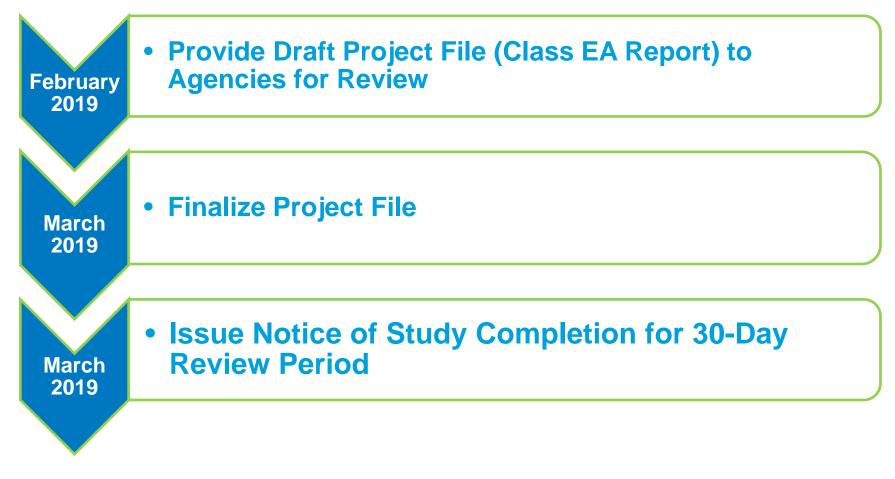
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Next Steps



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Anticipated Project Schedule



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Thank You!



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