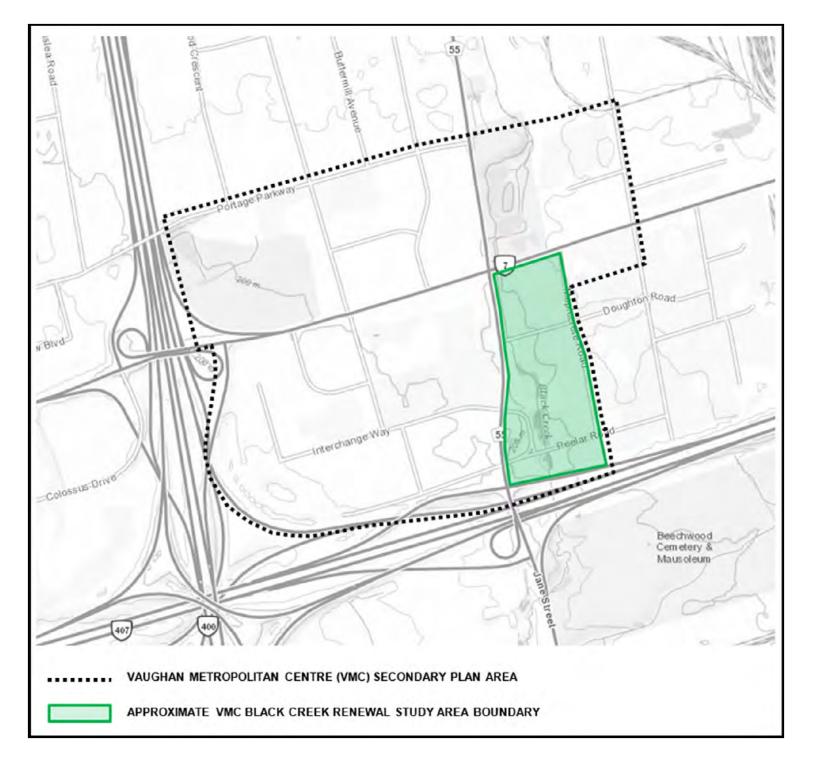
PUBLIC INFORMATION CENTRE

Vaughan Metropolitan Centre (VMC) Black Creek Renewal CLASS ENVIRONMENTAL ASSESSMENT

Wednesday, May 10, 2017 6:00 p.m. to 8:00 p.m.



Project Management, Environmental Assessment, Stormwater Management

TMIG | The Municipal Infrastructure Group Ltd.

8800 Dufferin Street, Suite 200 Vaughan, ON L4K 0C5 Tel. 905-738-5700 www.tmig.ca





The purpose of this Public Information Centre (PIC) is to:

- Provide you with a background of the Study
- Inform you of our progress to date
- Obtain your feedback

The major elements presented today are:

- Municipal Class EA Process
- Study Overview
- Background and Existing Conditions
- Evaluation Process and Criteria
- Alternative Alignment Designs
- Preferred Alignment Design
- Next Steps

You are invited to:

- Sign in to receive future updates
- Walk around and view the display boards
- Talk to representatives of the Study Team
- Submit comments via comment forms or through email, by May 26, 2017
- Visit project website at: <u>www.vaughan.ca/BlackCreek</u>



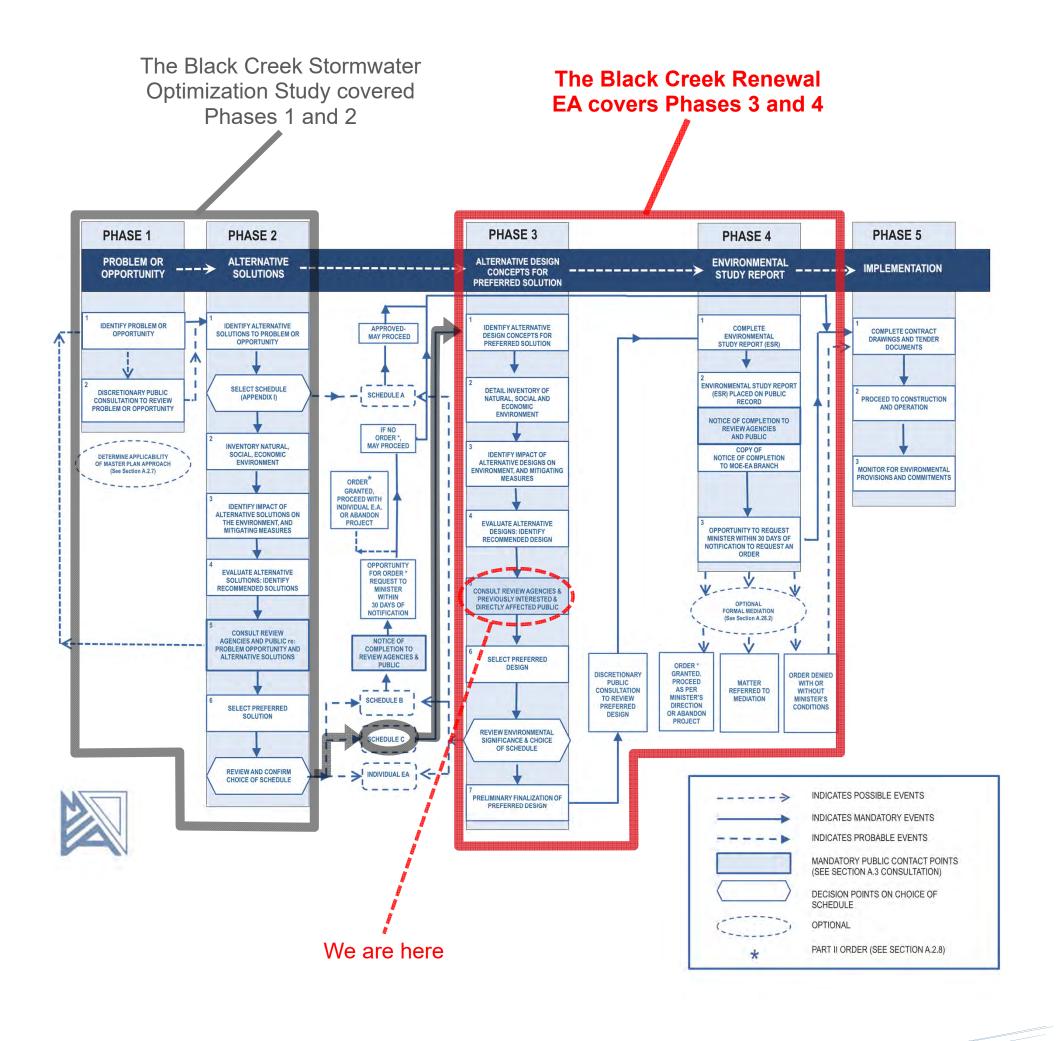
Black Creek Channel Culvert at Highway 7 looking south





CLASS ENVIRONMENTAL ASSESSMENT

- This project is subject to the Municipal Engineers Association Municipal Class Environmental Assessment (2000, as amended in 2007, 2011, and 2013)
- The Municipal Class EA is a planning and design process approved by the Ministry of the Environment and Climate Change (MOECC) to meet the requirements of the Ontario Environmental Assessment Act
- This study follows the Class EA process for Schedule C projects

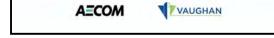






Chronology Preceding Black Creek Renewal EA

Major storm causing flooding in Black Creek within VMC
VMC Secondary Plan
ficial Plan for the VMC e context, planning licies that will guide he next 20 to 25 years. Creek is critical for thin the VMC Secondary
Black Creek Stormwater Optimization Study EA (Phases 1 and 2 of Municipal Class EA)
 Completed to address stormwater related issues in the broader Black Creek watershed within the City of Vaughan, including flooding in areas adjacent to the Black Creek channel. Preferred solution was to reduce flooding by





4

in the VMC.

 Completed to identify the required improvements and expansions to the City's watermain, sanitary sewer and stormwater management systems to support planned growth in the VMC.





EA Study: Key Milestones to Date

July 2012 to present

VMC Black Creek Renewal EA

(Phases 3 and 4 of Municipal Class EA) Notice of Commencement issued July 2012

The VMC Black Creek Renewal EA's purpose is to develop and evaluate potential alternative designs for the renewal of the Black Creek corridor to reduce flooding.

June 2013 to May 2014	Black Creek Consultation and Facilitation Process
affected land	and facilitation process was completed with directly owners and agencies to better understand key tunities and constraints.
July 2014 to May 2016	Allocation of Funding Sources Report and Development Charge Background Study – Black Creek Financial Strategy
 Study establi 	shed the framework for funding a number of projects

 Study established the framework for funding a number of projects within the VMC Secondary Plan, including the renewal of the Black Creek corridor.

January 2017 to May 2017

Project Status Update, continuation of Phase 3 and **Public Information Centre**





CLASS ENVIRONMENTAL ASSESSMENT

Background and Existing Conditions



Existing Natural Environment

- Field surveys indicate that existing aquatic and riparian areas provide low-quality, size-limited, and fragmented natural habitat opportunities
- No significant ecological features or functions present (i.e., no significant wetlands or environmentally sensitive areas)
- No presence of species at risk or their habitat









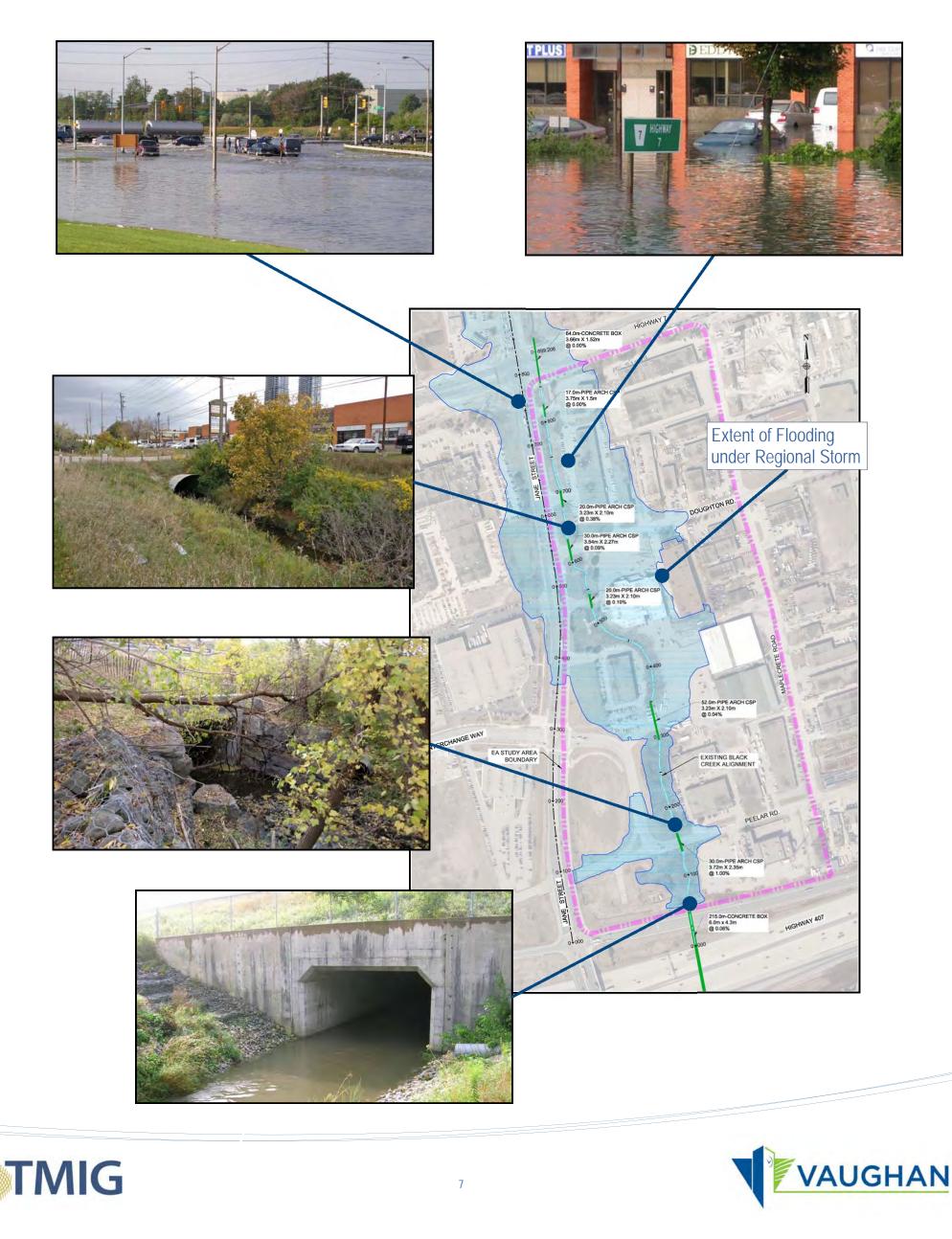


VMC Black Creek Renewal CLASS ENVIRONMENTAL ASSESSMENT

Background and Existing Conditions

Existing Hydraulic Environment

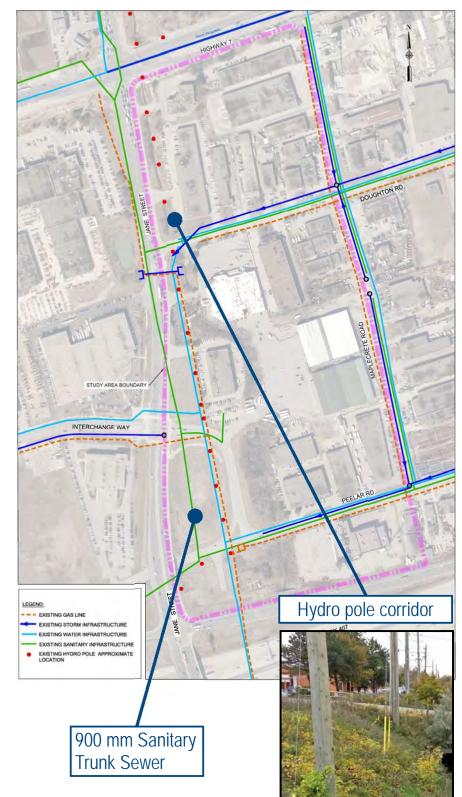
- The reach of Black Creek between Highway 407 and Highway 7 is prone to flooding
- The size of the existing channel and some of the driveway and road crossings are unable to convey peak flows from major storm events
- Major storm on August 19, 2005 caused widespread flooding to area



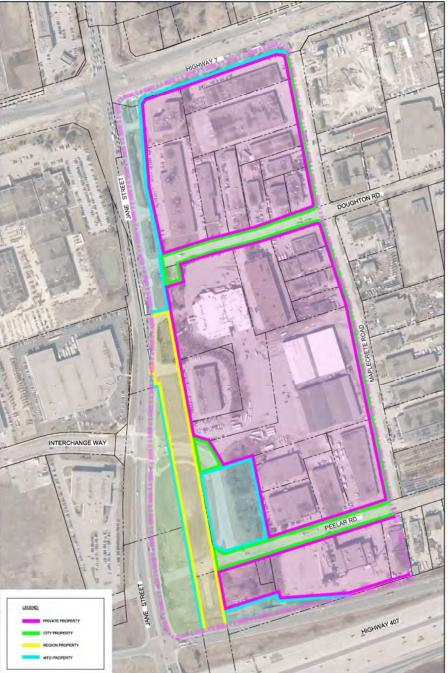
Other existing conditions that were considered for the alternative designs or in the alternative evaluation include:

- Existing utilities
- Existing land ownership
- Jane Street right-of-way
- Existing culverts at Highway 7 and Highway 407
- Existing buildings within the study area

Existing Utilities











CLASS ENVIRONMENTAL ASSESSMENT

Evaluation Process and Criteria

Alternative designs were comparatively and qualitatively evaluated based on the following criteria, developed within four main categories:

Technical Environment	 Safely convey Regional Storm Operation and maintenance Coordination with development within VMC Approvals and permits Constructability Utility conflicts
Natural Environment	 Fish habitat and aquatic ecosystems Terrestrial ecosystems Species of Concern Groundwater Impacts during construction
Social/Cultural Environment	 Public safety Private property acquisition Integration with planned/future land uses in VMC Impact on cultural heritage sites Archaeologically undisturbed lands

Financial Environment

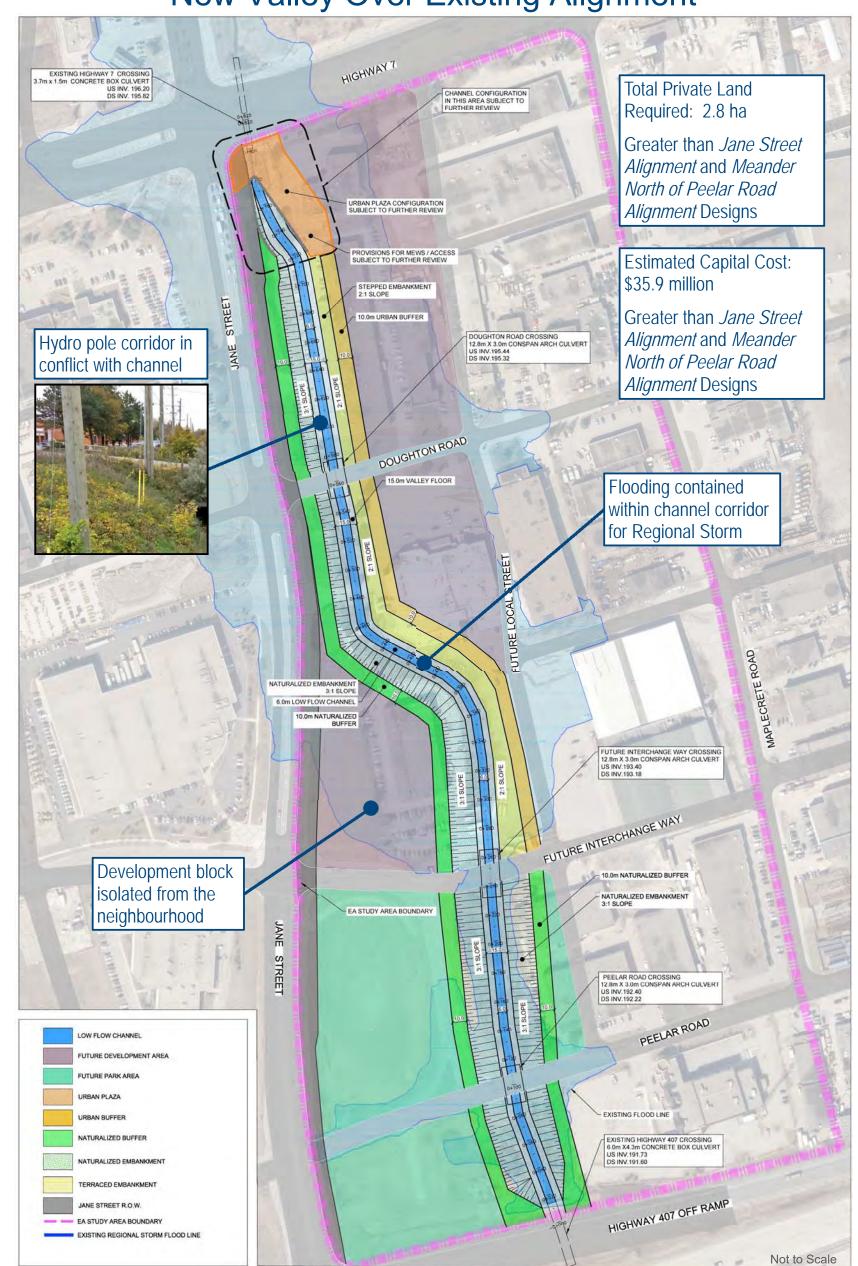
- Capital costs of implementation
- Operation and maintenance costs





Alternative Alignment Designs

CLASS ENVIRONMENTAL ASSESSMENT



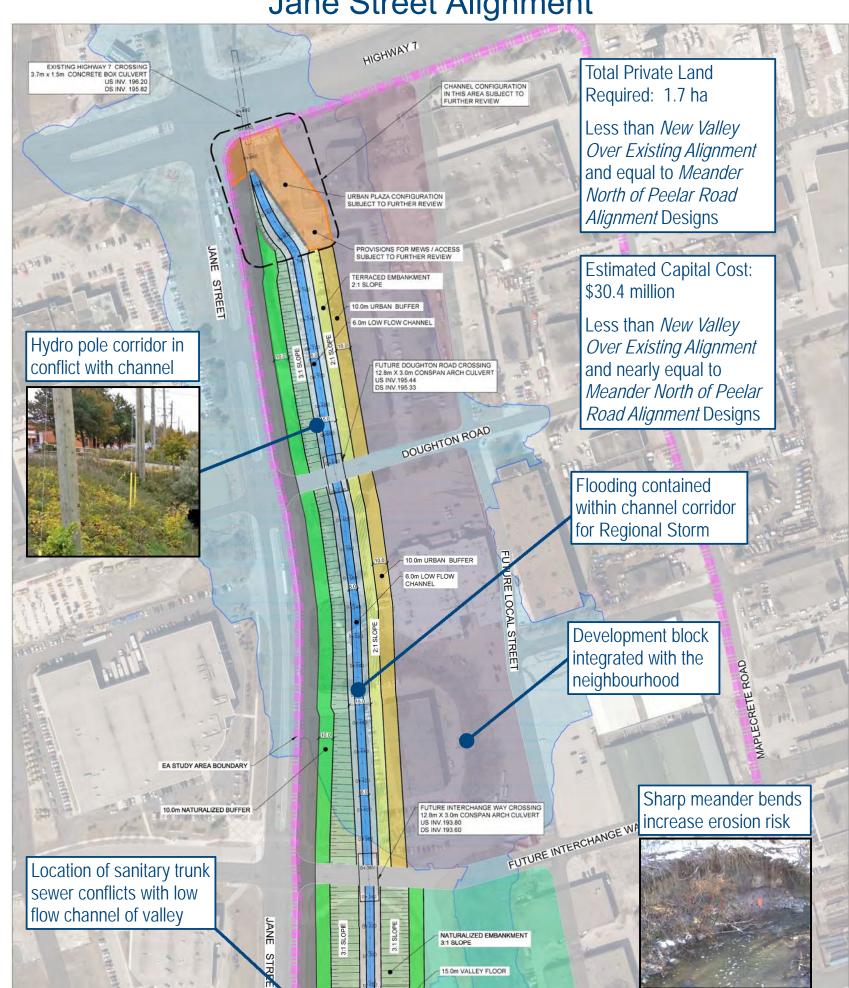
New Valley Over Existing Alignment





Alternative Alignment Designs

CLASS ENVIRONMENTAL ASSESSMENT



Jane Street Alignment

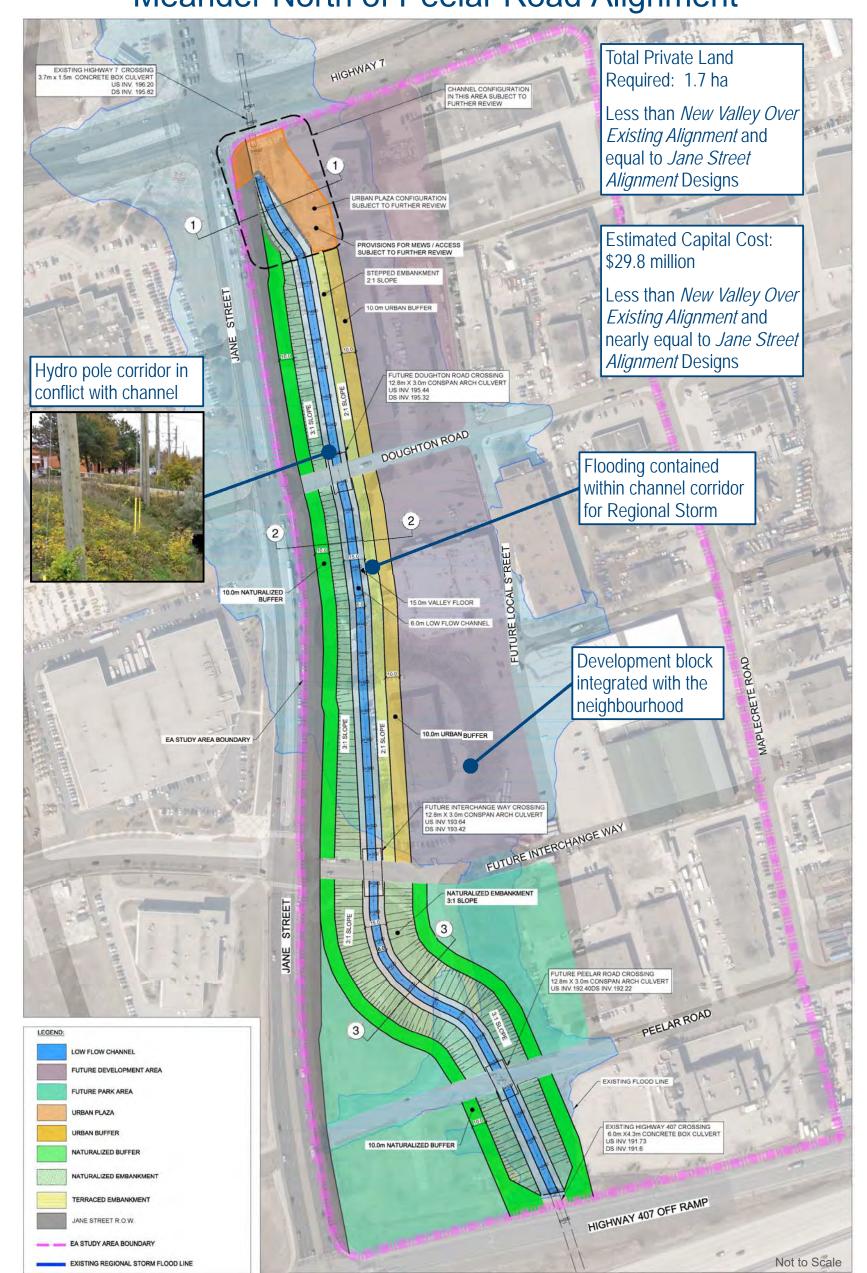






Alternative Alignment Designs

CLASS ENVIRONMENTAL ASSESSMENT



Meander North of Peelar Road Alignment





CLASS ENVIRONMENTAL ASSESSMENT

The 'Do Nothing' option is always investigated in the Environmental Assessment Process, in the event that all other alternatives result in unacceptable impacts.

Alternative	Technical Environment		Natural Environment		Social/Cultural Environment		Overall	
Design	Challenges	Performance	Impacts	Benefits	Impacts	Benefits	Cumulative Impact	Cumulat
Do Nothing		\bigcirc		\bigcirc		\bigcirc		(
Do Nothing							NOT RECO Does not reduce flooding and VM large area prone to flooding.	
New Valley over Existing Alignment								G
							NOT RECORE Flooding will be contained in the or require the acquisition of more pro- development block that is isolated	corridor, but this ivate land and v
Jane Street Alignment							NOT RECO Flooding will be contained in the bend will have increased risk for alignment has the greatest potent	corridor, but the erosion / slope t
Recomme Meander	nded Altern	ative Alignm	ent Design					
North of Peelar Road Alignment							RECOMM Flooding will be contained in the or greatest integration with VMC dev land and total capital cost require	corridor and will velopment. The



Evaluation of Alternatives

Evaluation Summar	'Y
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ative Benefit	Financial Environment
\bigcirc	No capital cost but costs will be incurred from future
nt hindered due to	flooding
	\$35.9 million in estimated
nis alignment will will create one ghbourhood.	capital costs
	\$30.4 million in estimated
he sharp meander e failure and this s with utilities.	capital costs
ill provide the ne least private ernatives.	\$29.8 million in estimated capital costs



Preferred Design Meander North of Peelar Road Alignment





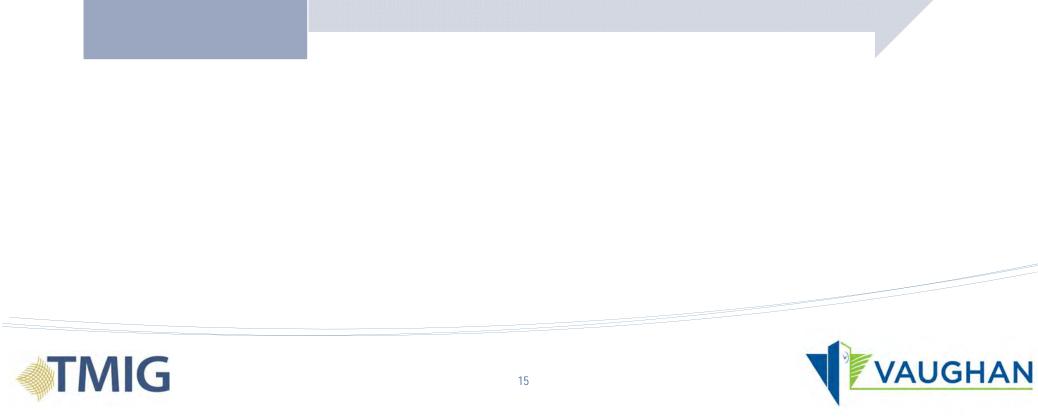
Artistic rendering illustrating a terraced embankment and urban buffer on the east side of the renewed Black Creek corridor near Doughton Road. The final configuration of the eastern embankment and urban buffer area will be established during detailed design of the renewed Black Creek corridor





Anticipated Timeline for Completion of the EA Study

May 2017	• Receive feedback from Public Information Centre by May 26, 2017
Spring-Summer 2017	 Refine alternative designs and evaluations based on feedback received at PIC and confirm preferred alternative Complete Environmental Study Report (ESR) and submit to review agencies
Early Fall 2017	Report to the Vaughan Metropolitan Centre Sub-Committee
Fall 2017	 Issue Notice of Completion Post ESR for 30-day public review





Contacts

Comments and Questions

Please share your comments with either Project Manager via the comment form or through email by May 26, 2017.

Project Managers:

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Thank you for attending!



